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        515                 520                 525
Lys Leu Ala Asn Gly Leu Pro Leu Gly Arg Ala Ala Gly Thr Asp Ser
    530                 535                 540
Phe Asn Gly His Pro Pro Gln Gly Cys Ala Ser Thr Pro Val Ala Arg
545                 550                 555                 560
Glu Leu Lys Ala Phe Val Glu Ala Thr Phe Gln Arg Gln Phe Val Leu
                565                 570                 575
Thr Leu Ser Glu Leu Lys Arg Leu Phe Asn Leu His Leu Ala Ser Leu
            580                 585                 590
Pro Pro Gly His Thr Leu Phe Ser Gly Ile Ser Asp Arg Met Leu Gln
        595                 600                 605
Asp Thr Val Leu Ala Ala Gly Cys Lys Gln Ile Leu Val Pro Phe Pro
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Pro Gln Thr Ala Ala Ser Pro Asp Glu Gln Lys Val Phe Ala Leu Trp
625                 630                 635                 640
Glu Ser Gly Asp Met Ser Asp Gln His Arg Gln Val Leu Leu Glu Ile
                645                 650                 655
Phe Ser Lys Asn Tyr Arg Val Arg Arg Asn Met Ile Gln Ser Arg Leu
            660                 665                 670
Thr Gln Glu Cys Gly Glu Asp Leu Ser Lys Gln Glu Val Asp Lys Val
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Thr Val Gln Ser
705
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<210> 11515
<211> 2482
<212> DNA
<213> Homo sapiens

<220>
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<222> (9)..(416)

<400> 11515
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aaactttcgt ccacattcca gggcctcctg gaagacttaa ccttttgtct ttgtacgttt 600
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<210> 11516
<211> 136
<212> PRT
<213> Homo sapiens

<400> 11516
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20 25 30
Ile Glu Phe Phe Trp Gly Ala Leu Glu Met Phe Thr Gln Glu Glu Leu
35 40 45
Cys Lys Phe Ile Lys Phe Ala Cys Asn Gln Glu Arg Ile Pro Phe Thr
50 55 60
Cys Pro Cys Lys Asp Gly Gly Pro Asp Thr Ala His Val Pro Pro Tyr

0060.0076.0200

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 65                  70                  75                  80
Pro Met Lys Ile Ala Pro Pro Asp Gly Thr Ala Gly Ser Pro Asp Ser
                85                  90                  95
Arg Tyr Ile Arg Val Glu Thr Cys Met Phe Met Ile Lys Leu Pro Gln
            100                 105                 110
Tyr Ser Ser Leu Glu Ile Met Leu Glu Lys Leu Arg Cys Ala Ile His
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Tyr Arg Glu Asp Pro Leu Ser Gly
    130                 135
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<210> 11517
<211> 2149
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (200)..(1045)

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ccctgatggt gtggcaggct ctggactcct aaagctctgg agcgaattta agattttatt 180
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cgtccaggat cagggatgtc tgcctggcct tattttattt atggaccatc ccaaccctcc 360
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<210> 11518
<211> 282
<212> PRT
<213> Homo sapiens

<400> 11518

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             20                  25                  30
Ala Ile Val Gln Asp Gln Gly Cys Leu Pro Gly Leu Ile Leu Phe Met
         35                  40                  45
Asp His Pro Asn Pro Pro Val Val His Ser Ala Leu Leu Ala Leu Arg
     50                  55                  60
Tyr Leu Ala Glu Cys Arg Ala Asn Arg Glu Lys Met Lys Gly Glu Leu
 65                  70                  75                  80
Gly Met Met Leu Ser Leu Gln Asn Val Ile Gln Lys Thr Thr Thr Pro
                 85                  90                  95
Gly Glu Thr Lys Leu Leu Ala Ser Glu Ile Tyr Asp Ile Leu Gln Ser
            100                 105                 110
Ser Asn Met Ala Asp Gly Asp Ser Phe Asn Glu Met Asn Ser Arg Arg
        115                 120                 125
Arg Lys Ala Gln Phe Phe Leu Gly Thr Thr Asn Lys Arg Ala Lys Thr
    130                 135                 140
Val Val Leu His Ile Asp Gly Leu Asp Asp Thr Ser Arg Arg Asn Leu
145                 150                 155                 160
Cys Glu Glu Ala Leu Leu Lys Ile Lys Gly Val Ile Ser Phe Thr Phe
                165                 170                 175
Gln Met Ala Val Gln Arg Cys Val Val Arg Ile Arg Ser Asp Leu Lys
            180                 185                 190
Ala Glu Ala Leu Ala Ser Ala Ile Ala Ser Thr Lys Val Met Lys Ala
        195                 200                 205
Gln Gln Val Val Lys Ser Glu Ser Gly Glu Glu Met Leu Val Pro Phe
    210                 215                 220
Gln Asp Thr Pro Val Glu Val Glu Gln Asn Thr Glu Leu Pro Asp Tyr
225                 230                 235                 240
Leu Pro Glu Asp Glu Ser Pro Thr Lys Glu Gln Asp Lys Ala Val Ser
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0003703.6942.0

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            260                 265                 270
Ala Asn Phe Leu Ser Arg Ser Phe Tyr Trp
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<210> 11519
<211> 2422
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (64)..(1557)

<400> 11519

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0022.0.6450.0

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aagatctgga caaggttcca ac 2422

<210> 11520
<211> 498
<212> PRT
<213> Homo sapiens

<400> 11520
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Glu Asp Ser Thr Asp Asp Glu Asp Gly Leu Leu Glu Glu His Lys Glu
35 40 45
Phe Leu Lys Lys Phe Ser Val Thr Ile Asp Ala Ile Pro Asp His His
50 55 60
Pro Gly Glu Glu Ile Phe Asn Phe Leu Asn Ser Gly Lys Ile Phe Asn
65 70 75 80
Gln Tyr Thr Leu Asp Leu Arg Asp Ser Gly Phe Ile Gly Gln Ser Ala
85 90 95
Val Glu Lys Leu Ile Leu Lys Ser Gly Lys Thr Asp Gln Ile Phe Leu
100 105 110
Thr Thr Gln Gly Phe Leu Thr Ser Ala Tyr His Tyr Val Gln Cys Pro
115 120 125
Val Pro Val Leu Lys Trp Leu Phe Arg Met Met Ser Val His Thr Asp
130 135 140
Cys Ile Val Ser Val Gln Ile Leu Ser Thr Leu Met Glu Ile Thr Ile
145 150 155 160
Arg Asn Asp Thr Phe Ser Asp Ser Pro Val Trp Pro Trp Ile Pro Ser
165 170 175
Leu Ser Asp Val Ala Ala Val Phe Phe Asn Met Gly Ile Asp Phe Arg
180 185 190
Ser Leu Phe Pro Leu Glu Asn Leu Gln Pro Asp Phe Asn Glu Asp Tyr
195 200 205
Leu Val Ser Glu Thr Gln Thr Thr Ser Arg Gly Lys Glu Ser Glu Asp
210 215 220
Ser Ser Tyr Lys Pro Ile Phe Ser Thr Leu Pro Glu Thr Asn Ile Leu
225 230 235 240

0032070.9462.0

Asn Val Val Lys Phe Leu Gly Leu Cys Thr Ser Ile His Pro Glu Gly
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Tyr Gln Asp Arg Glu Ile Met Leu Leu Ile Leu Met Leu Phe Lys Met
260 265 270
Ser Leu Glu Lys Gln Leu Lys Gln Ile Pro Leu Val Asp Phe Gln Ser
275 280 285
Leu Leu Ile Asn Leu Met Lys Asn Ile Arg Asp Trp Asn Thr Lys Val
290 295 300
Pro Glu Leu Cys Leu Gly Ile Asn Glu Leu Ser Ser His Pro His Asn
305 310 315 320
Leu Leu Trp Leu Val Gln Leu Val Pro Asn Trp Thr Ser Arg Gly Arg
325 330 335
Gln Leu Arg Gln Cys Leu Ser Leu Val Ile Ile Ser Lys Leu Leu Asp
340 345 350
Glu Lys His Glu Asp Val Pro Asn Ala Ser Asn Leu Gln Val Ser Val
355 360 365
Leu His Arg Tyr Leu Val Gln Met Lys Pro Ser Asp Leu Leu Lys Lys
370 375 380
Met Val Leu Lys Lys Lys Ala Glu Gln Pro Asp Gly Ile Ile Asp Asp
385 390 395 400
Ser Leu His Leu Glu Leu Glu Lys Gln Ala Tyr Tyr Leu Thr Tyr Ile
405 410 415
Leu Leu His Leu Val Gly Glu Val Ser Cys Ser His Ser Phe Ser Ser
420 425 430
Gly Gln Arg Lys His Phe Val Leu Leu Cys Gly Ala Leu Glu Lys His
435 440 445
Val Lys Cys Asp Ile Arg Glu Asp Ala Arg Leu Phe Tyr Arg Thr Lys
450 455 460
Val Lys Asp Leu Val Ala Arg Ile His Gly Lys Trp Gln Glu Ile Ile
465 470 475 480
Gln Asn Cys Arg Pro Thr Gln Gly Gln Leu His Asp Phe Trp Val Pro
485 490 495
Asp Ser

<210> 11521
<211> 2159
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (109)..(1713)

<400> 11521
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0822030.0004.0260

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<210> 11522
<211> 535
<212> PRT
<213> Homo sapiens

<400> 11522
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Lys Val Glu Ser Ser Ser Ser Ala Pro Gly Leu Thr Ser Val Ser Pro
20 25 30
Pro Val Thr Ser Thr Thr Ser Ala Ala Ser Pro Glu Glu Glu Glu Glu
35 40 45

0082020 6946260

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Ser Glu Asp Glu Ser Glu Ile Leu Glu Glu Ser Pro Cys Gly Arg Trp
     50                  55                  60
Gln Lys Arg Arg Glu Glu Val Asn Gln Arg Asn Val Pro Gly Ile Asp
 65                  70                  75                  80
Ser Ala Tyr Leu Ala Met Asp Thr Glu Glu Gly Val Glu Val Met Trp
                 85                  90                  95
Asn Glu Val Gln Phe Ser Glu Arg Lys Asn Tyr Lys Leu Gln Glu Glu
            100                 105                 110
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Ser Pro Ala Leu Glu Leu Asp Lys Phe Leu Glu Asp Val Arg Asn Gly
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<210> 11523
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<212> DNA
<213> Homo sapiens

<400> 11523

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<213> Homo sapiens

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<400> 11525

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Gly Ala Lys Tyr Leu Lys Arg Lys Asp Ile Glu Ser Ile Arg Asn Phe
        195                 200                 205
Ala Ala Asp His Phe Asn Gln Glu Ile Leu Pro Val Phe Leu Asn Ala
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225                 230                 235                 240
Arg Leu Glu Leu Ile Arg Leu Met Glu Thr Gln Glu Glu Asp Val Val
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Leu Leu Thr Ala Gly Glu His Asn Lys Ala Cys Ser Leu Leu Gly Lys
            260                 265                 270
Leu Arg Leu Glu Cys Ala Asp Leu Leu Glu Thr Arg Gly Val Val Leu
        275                 280                 285
Arg Asp Pro Thr Leu Phe Ser Phe Leu Trp Val Val Asp Phe Pro Leu
    290                 295                 300
Phe Leu Pro Lys Glu Glu Ser Pro Arg Glu Leu Glu Ser Ala His His
305                 310                 315                 320
Pro Phe Thr Ala Pro His Pro Ser Asp Ile His Leu Leu Tyr Thr Glu
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Pro Lys Lys Ala Arg Ser Gln His Tyr Asp Leu Val Leu Asn Gly Asn
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Glu Ile Gly Gly Gly Ser Ile Arg Ile His Asn Ala Glu Leu Gln Arg
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Tyr Ile Leu Ala Thr Leu Leu Lys Glu Asp Val Lys Met Leu Ser His
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Leu Leu Gln Ala Leu Asp Tyr Gly Ala Pro Pro His Gly Gly Ile Ala
385                 390                 395                 400
Leu Gly Leu Asp Arg Leu Ile Cys Leu Val Thr Gly Ser Pro Ser Ile
                405                 410                 415
Arg Asp Val Ile Ala Phe Pro Lys Ser Phe Arg Gly His Asp Leu Met
            420                 425                 430
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<213> Homo sapiens

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    50                  55                  60
His Lys Phe Tyr Gly Pro Arg Ile Gly Ala Leu Tyr Ile Arg Gly Leu
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Gly Glu Phe Thr Pro Leu Tyr Pro Met Leu Phe Gly Gly Gly Gln Glu
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Arg Asn Phe Arg Pro Gly Thr Glu Asn Thr Pro Met Ile Ala Gly Leu
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Gly Lys Ala Ala Glu Leu Val Thr Gln Asn Cys Glu Ala Tyr Glu Ala
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His Met Arg Asp Val Arg Asp Tyr Leu Glu Glu Arg Leu Glu Ala Glu
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Phe Gly Gln Lys Arg Ile His Leu Asn Ser Gln Phe Pro Gly Thr Gln
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Asp Glu Val Ser Leu Glu Lys Asn Pro Cys Ile Arg Glu Ala Arg Arg
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Arg Ala Val Ile Glu Val Gln Thr Leu Ile Thr Tyr Ile Asp Leu Lys
50 55 60
Glu Ala Leu Glu Lys Arg Lys Leu Phe Ala Cys Glu Glu His Pro Ser
65 70 75 80
His Lys Ala Val Trp Asn Val Leu Gly Asn Leu Ser Glu Ile Gln Gly
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Glu Val Leu Ser Phe Asp Gly Asn Arg Thr Asp Lys Asn Tyr Ile Arg
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<213> Homo sapiens

<400> 11531

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His	Ser	Ala	Val	Ile	Leu	Gln	Ala	Ala	Phe	Arg	Gly	Met	Lys	Thr	Arg
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Arg	His	Leu	Lys	Ser	Met	His	Ser	Ser	Ala	Thr	Leu	Ile	Gln	Ser	Arg
			180					185					190		
Phe	Arg	Ser	Leu	Leu	Val	Arg	Arg	Arg	Phe	Ile	Ser	Leu	Lys	Lys	Ala
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Ser Ser Tyr Arg Arg Leu Met Val Lys Lys Lys Leu Gln Glu Met Gln
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Arg Ala Ala Val Leu Ile Gln Ala Thr Phe Arg Met His Arg Lys Lys
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<212> DNA
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<400> 11533

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         35                  40                  45
Thr Ile Leu Ser Lys Asp Ile Val Asp Arg His Arg Glu Lys Thr Leu
     50                  55                  60
Arg Leu Leu Trp Lys Ile Ala Phe Ala Phe Gln Val Asp Ile Ser Leu
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Asn Leu Asp Gln Leu Lys Glu Glu Ile Ala Phe Leu Lys His Thr Lys
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Ile Asn Lys Lys Lys Gly Lys Arg Asp Ser Gly Ser Phe Glu Gln Tyr
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Arg Val Leu Cys Tyr Leu Ile His His Tyr His Pro Cys Tyr Val Pro
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Thr Gly Ser Val Val Leu Asn Ser Ser Ser Glu Ser Asp Asp Ser Ser
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Tyr Lys Glu Leu Leu Glu Asn Glu Lys Lys Asn Phe His Leu Val Arg
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Ser Ala Val Arg Asp Leu Gly Gly Ile Pro Ala Met Ile Asn His Ser
245 250 255
Asp Met Ser Asn Thr Ile Pro Asp Glu Lys Val Val Ile Thr Tyr Leu
260 265 270
Ser Phe Leu Cys Ala Arg Leu Leu Asp Leu Arg Lys Glu Ile Arg Ala
275 280 285
Ala Arg Leu Ile Gln Thr Thr Trp Arg Lys Tyr Lys Leu Lys Thr Asp
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Leu Lys Arg His Gln Glu Arg Glu Lys Ala Ala Arg Ile Ile Gln Leu
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Ala Val Ile Asn Phe Leu Ala Lys Gln Arg Leu Arg Lys Arg Val Asn
325 330 335
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Arg Phe Leu Lys Leu Lys Tyr Tyr Ser Ile Ile Leu Gln Ser Arg Ile
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Val Thr Ile Gln Arg His Trp Arg Ala Tyr Leu Arg Arg Lys Gln Asp
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<400> 11535

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Met Gly Pro Gly Arg Lys Arg Asp Phe Ser Pro Val Pro Trp Ser Gln
         35                  40                  45
Tyr Phe Glu Ser Met Glu Asp Val Glu Val Glu Asn Glu Thr Gly Lys
     50                  55                  60
Asp Thr Phe Arg Val Tyr Lys Ser Gly Ser Glu Gly Pro Val Leu Leu
 65                  70                  75                  80
Leu Leu His Gly Gly Gly His Ser Ala Leu Ser Trp Ala Val Phe Thr
                 85                  90                  95
Ala Ala Ile Ile Ser Arg Val Gln Cys Arg Ile Val Ala Leu Asp Leu
            100                 105                 110
Arg Ser His Gly Glu Thr Lys Val Lys Asn Pro Glu Asp Leu Ser Ala
        115                 120                 125
Glu Thr Met Ala Lys Asp Val Gly Asn Val Val Glu Ala Met Tyr Gly
    130                 135                 140
Asp Leu Pro Pro Pro Ile Met Leu Ile Gly His Ser Met Gly Gly Ala
145                 150                 155                 160
Ile Ala Val His Thr Ala Ser Ser Asn Leu Val Pro Ser Leu Leu Gly
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Leu Cys Met Ile Asp Val Val Glu Gly Thr Ala Met Asp Ala Leu Asn
            180                 185                 190
Ser Met Gln Asn Phe Leu Arg Gly Arg Pro Lys Thr Phe Lys Ser Leu
        195                 200                 205
Glu Asn Ala Ile Glu Trp Ser Val Lys Ser Gly Gln Ile Arg Asn Leu
    210                 215                 220
Glu Ser Ala Arg Val Ser Met Val Gly Gln Val Lys Gln Cys Glu Gly
225                 230                 235                 240
Ile Thr Ser Pro Glu Gly Ser Lys Ser Ile Val Glu Gly Ile Ile Glu
                245                 250                 255
Glu Glu Glu Glu Asp Glu Glu Gly Ser Glu Ser Ile Ser Lys Arg Lys
            260                 265                 270
Lys Glu Asp Asp Met Glu Thr Lys Lys Asp His Pro Tyr Thr Trp Arg
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Ile Glu Leu Ala Lys Thr Glu Lys Tyr Trp Asp Gly Trp Phe Arg Gly
    290                 295                 300
Leu Ser Asn Leu Ser Leu Ser Cys Pro Ile Pro Lys Leu Leu Leu Leu
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Ala Gly Val Asp Arg Leu Asp Lys Asp Leu Thr Ile Gly Gln Met Gln
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<222> (72)..(1322)

<400> 11536

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<212> PRT
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His Gln Ser Gln Asn Leu Gln Gln Pro Arg Gly Ser Gln Ala Trp Val
50 55 60
Leu Ser Cys Ser Pro Ser Ser Gln Gly Gln His Lys His Lys Tyr His
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Phe Gln Lys Thr Phe Thr Val Ser Gln Ala Gly Asn Cys Arg Ile Met
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Ala Tyr Cys Asp Ala Leu Ser Cys Leu Val Ile Ser Gln Pro Ser Pro
100 105 110
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115 120 125
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130 135 140
Gly Leu Ala Phe Ser Ser Tyr Leu Arg Gly Leu Leu Leu Ser Ala Ser
145 150 155 160
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165 170 175
Gln Thr Tyr Asn Ala Gly Arg Pro Val Trp Ser Cys Cys Trp Cys Leu
180 185 190
Asp Glu Thr Asn Tyr Ile Tyr Ala Gly Leu Ala Asn Gly Ser Ile Leu
195 200 205
Val Tyr Asp Val Arg Asn Thr Ser Ser His Val Gln Glu Leu Val Ala
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Gln Lys Ala Arg Cys Pro Leu Val Ser Leu Ser Tyr Met Pro Arg Val

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            260                 265                 270
Val Leu Pro Leu Glu Pro Gly Gly Cys Ile Asp Phe Gln Thr Glu Asn
        275                 280                 285
Ser Ser Arg His Cys Leu Val Thr Tyr Arg Pro Asp Lys Asn His Thr
    290                 295                 300
Thr Ile Arg Ser Val Leu Met Glu Met Ser Tyr Arg Leu Asp Asp Thr
305                 310                 315                 320
Gly Asn Pro Ile Cys Ser Cys Gln Pro Val His Thr Phe Phe Gly Gly
                325                 330                 335
Pro Thr Cys Lys Leu Leu Thr Lys Asn Ala Ile Phe Gln Ser Pro Glu
            340                 345                 350
Asn Asp Gly Asn Ile Leu Val Cys Thr Gly Asp Glu Ala Ala Asn Ser
        355                 360                 365
Ala Leu Leu Trp Asp Ala Ala Ser Gly Ser Leu Leu Gln Asp Leu Gln
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Thr Asp Gln Pro Val Leu Asp Ile Cys Pro Phe Glu Val Asn Arg Asn
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<212> DNA
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<212> PRT
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Lys Arg Leu Ala Asp Gln Val Ala Glu Ile Gln Gln Leu Thr Lys Ser
        35                  40                  45
Val Ser Asp Arg Ser Ser Leu Asn Lys Leu Leu Thr Ser Gly Gln Arg
    50                  55                  60
Gln Leu Leu Leu Cys Glu Thr Leu Thr Glu Thr Val Tyr Gly Asp Arg
65                  70                  75                  80
Gly Gln Leu Ile Lys Ser Lys Glu Arg Arg Val Phe Leu Leu Asn Asp
                85                  90                  95
Met Leu Val Cys Ala Asn Ile Asn Phe Lys Gly Gln Leu Glu Ile Ser
            100                 105                 110
Ser Leu Val Pro Leu Gly Pro Lys Tyr Val Val Lys Trp Asn Thr Ala
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Leu Pro Gln Val Gln Val Val Glu Val Gly Gln Asp Gly Gly Thr Tyr
    130                 135                 140
Asp Lys Asp Asn Val Leu Ile Gln His Ser Gly Ala Lys Lys Ala Ser
145                 150                 155                 160
Ala Ser Gly Gln Ala Gln Asn Lys Val Tyr Leu Gly Pro Pro Arg Leu
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Phe Gln Glu Leu Gln Asp Leu Gln Lys Asp Leu Ala Val Val Glu Gln
            180                 185                 190
Ile Thr Leu Leu Ile Ser Thr Leu His Gly Thr Tyr Gln Asn Leu Asn
        195                 200                 205
Met Thr Val Ala Gln Asp Trp Cys Leu Ala Leu Gln Arg Leu Met Arg
    210                 215                 220
Val Lys Glu Glu Glu Ile His Ser Ala Asn Lys Cys Arg Leu Arg Leu
225                 230                 235                 240
Leu Leu Pro Gly Lys Pro Asp Lys Ser Gly Arg Pro Ile Ser Phe Met
                245                 250                 255
Val Val Phe Ile Thr Pro Asn Pro Leu Ser Lys Ile Ser Trp Val Asn
            260                 265                 270
Arg Leu His Leu Ala Lys Ile Gly Leu Arg Glu Glu Asn Gln Pro Gly
        275                 280                 285
Trp Leu Cys Pro Asp Glu Asp Lys Lys Ser Lys Ala Pro Phe Trp Cys
    290                 295                 300
Pro Ile Leu Ala Cys Cys Ile Pro Ala Phe Ser Ser Arg Ala Leu Ser
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Leu Gln Leu Gly Ala Leu Val His Ser Pro Val Asn Cys Pro Leu Leu
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Gly Phe Ser Ala Val Ser Thr Ser Leu Pro Gln Gly Tyr Leu Trp Val
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Gly Gly Gly Gln Glu Gly Ala Gly Gly Gln Val Glu Ile Phe Ser Leu
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Asn Arg Pro Ser Pro Arg Thr Val Lys Ser Phe Pro Leu Ala Ala Pro
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Val Asp Thr Gly Thr Gln Cys Leu Val Ser Cys Arg Ser Pro Gly Pro
435 440 445
Gln Pro Val Leu Cys Leu Arg His Ser Pro Phe His Leu Leu Ala Gly
450 455 460
Leu Gln Asp Gly Thr Leu Ala Ala Tyr Pro Arg Thr Ser Gly Gly Val
465 470 475 480
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485 490 495
Pro Val Arg Thr Leu Leu Ser Leu Glu Asp Ala Val Trp Ala Ser Cys
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Gly Pro Arg Val Thr Val Leu Glu Ala Thr Thr Leu Gln Pro Gln Gln
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Lys Ala Gly Ser Gly Val Trp Met Ala Phe Ser Ser Gly Thr Ser Ile
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Arg Leu Phe His Thr Glu Thr Leu Glu His Leu Gln Glu Ile Asn Ile
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 286
<212> PRT
<213> Homo sapiens

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Glu Ala Thr Tyr Glu Glu Asp Trp Glu Val Phe Asp Pro Tyr Tyr Phe
65                  70                  75                  80
Ile Lys His Val Pro Pro Leu Thr Glu Glu Gln Leu Asn Arg Lys Pro
                85                  90                  95
Ala Leu Pro Leu Lys Thr Arg Ser Thr Pro Glu Phe Ser Leu Val Leu
            100                 105                 110
Asp Leu Asp Glu Thr Leu Val His Cys Ser Leu Asn Glu Leu Glu Asp
        115                 120                 125
Ala Ala Leu Thr Phe Pro Val Leu Phe Gln Asp Val Val Tyr Gln Val
    130                 135                 140
Tyr Val Arg Leu Arg Pro Phe Phe Arg Glu Phe Leu Glu Arg Met Ser
145                 150                 155                 160
Gln Met Tyr Glu Ile Ile Leu Phe Thr Ala Ser Lys Lys Val Tyr Ala
                165                 170                 175
Asp Lys Leu Leu Asn Ile Leu Asp Pro Lys Lys Gln Leu Val Arg His
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Arg Leu Phe Arg Glu His Cys Val Cys Val Gln Gly Asn Tyr Ile Lys
        195                 200                 205
Asp Leu Asn Ile Leu Gly Arg Asp Leu Ser Lys Thr Ile Ile Ile Asp
    210                 215                 220
Asn Ser Pro Gln Ala Phe Ala Tyr Gln Leu Ser Asn Gly Ile Pro Ile
225                 230                 235                 240
Glu Ser Trp Phe Met Asp Lys Asn Asp Asn Glu Leu Leu Lys Leu Ile
                245                 250                 255
Pro Phe Leu Glu Lys Leu Val Glu Leu Asn Glu Asp Val Arg Pro His
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Ile Arg Asp Arg Phe Arg Leu His Asp Leu Leu Pro Pro Asp
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<212> DNA
<213> Homo sapiens

<220>
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<222> (181)..(2082)

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<212> PRT

<213> Homo sapiens

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        35   40   45
Cys Val Leu Gly His Val Asp Thr Gly Lys Thr Lys Ile Leu Asp Lys
    50   55   60
Leu Arg His Thr His Val Gln Asp Gly Glu Ala Gly Gly Ile Thr Gln
65   70   75   80
Gln Ile Gly Ala Thr Asn Val Pro Leu Glu Ala Ile Asn Glu Gln Thr
                85   90   95
Lys Met Ile Glu Asn Phe Asp Arg Glu Asn Val Arg Ile Pro Gly Met
            100   105   110
Leu Ile Ile Asp Thr Pro Gly His Glu Ser Phe Ser Asn Leu Arg Asn
        115   120   125
Arg Gly Ser Ser Leu Cys Asp Ile Ala Ile Leu Val Val Asp Ile Met
    130   135   140
His Gly Leu Glu Pro Gln Thr Ile Glu Ser Ile Asn Leu Leu Lys Ser
145   150   155   160
Lys Lys Cys Pro Phe Ile Val Ala Leu Asn Lys Ile Asp Arg Leu Tyr
                165   170   175
Asp Trp Lys Lys Ser Pro Asp Ser Asp Val Ala Ala Thr Leu Lys Lys
            180   185   190
Gln Lys Lys Asn Thr Lys Asp Glu Phe Glu Glu Arg Ala Lys Ala Ile
        195   200   205
Ile Val Glu Phe Ala Gln Gln Gly Leu Asn Ala Ala Leu Phe Tyr Glu
    210   215   220
Asn Lys Asp Pro Arg Thr Phe Val Ser Leu Val Pro Thr Ser Ala His
225   230   235   240
Thr Gly Asp Gly Met Gly Ser Leu Ile Tyr Leu Leu Val Glu Leu Thr
                245   250   255
Gln Thr Met Leu Ser Lys Arg Leu Ala His Cys Glu Glu Leu Arg Ala
            260   265   270
Gln Val Met Glu Val Lys Ala Leu Pro Gly Met Gly Thr Thr Ile Asp
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Val Ile Leu Ile Asn Gly Arg Leu Lys Glu Gly Asp Thr Ile Ile Val
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Pro Gly Val Glu Gly Pro Ile Val Thr Gln Ile Arg Gly Leu Leu Leu
305   310   315   320
Pro Pro Pro Met Lys Glu Leu Arg Val Lys Asn Gln Tyr Glu Lys His
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Lys Glu Val Glu Ala Ala Gln Gly Val Lys Ile Leu Gly Lys Asp Leu
            340   345   350
Glu Lys Thr Leu Ala Gly Leu Pro Leu Leu Val Ala Tyr Lys Glu Asp

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Glu Ile Pro Val Leu Lys Asp Glu Leu Ile His Glu Leu Lys Gln Thr
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Val Pro Tyr Ala Gly Ile Asn Ile Gly Pro Val His Lys Lys Asp Val
            420                 425                 430
Met Lys Ala Ser Val Met Leu Glu His Asp Pro Gln Tyr Ala Val Ile
        435                 440                 445
Leu Ala Phe Asp Val Arg Ile Glu Arg Asp Ala Gln Glu Met Ala Asp
    450                 455                 460
Ser Leu Gly Val Arg Ile Phe Ser Ala Glu Ile Ile Tyr His Leu Phe
465                 470                 475                 480
Asp Ala Phe Thr Lys Tyr Arg Gln Asp Tyr Lys Lys Gln Lys Gln Glu
                485                 490                 495
Glu Phe Lys His Ile Ala Val Phe Pro Cys Lys Ile Lys Ile Leu Pro
            500                 505                 510
Gln Tyr Ile Phe Asn Ser Arg Asp Pro Ile Val Met Gly Val Thr Val
        515                 520                 525
Glu Ala Gly Gln Val Lys Gln Gly Thr Pro Met Cys Val Pro Ser Lys
    530                 535                 540
Asn Phe Val Asp Ile Gly Ile Val Thr Ser Ile Glu Ile Asn His Lys
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Gln Val Asp Val Ala Lys Lys Gly Gln Glu Val Cys Val Lys Ile Glu
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Pro Ile Pro Gly Glu Ser Pro Lys Met Phe Gly Arg His Phe Glu Ala
            580                 585                 590
Thr Asp Ile Leu Val Ser Lys Ile Ser Arg Gln Ser Ile Asp Ala Leu
        595                 600                 605
Lys Asp Trp Phe Arg Asp Glu Met Gln Lys Ser Asp Trp Gln Leu Ile
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<212> DNA
<213> Homo sapiens

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<212> PRT
<213> Homo sapiens

<400> 11546

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Phe Thr Val Tyr Cys Ser Ala Leu Phe Val Leu Pro Leu Leu Gly Leu
         35                  40                  45
His Glu Ala Ala Ser Phe Tyr Gln Arg Ala Leu Leu Ala Asn Ala Leu
     50                  55                  60
Thr Ser Ala Leu Arg Leu His Gln Arg Leu Pro His Phe Gln Leu Ser
 65                  70                  75                  80
Arg Ala Phe Leu Ala Gln Ala Leu Leu Glu Asp Ser Cys His Tyr Leu
                 85                  90                  95
Leu Tyr Ser Leu Ile Phe Val Asn Ser Tyr Pro Val Thr Met Ser Ile
            100                 105                 110
Phe Pro Val Leu Leu Phe Ser Leu Leu His Ala Ala Thr Tyr Thr Lys
        115                 120                 125
Lys Val Leu Asp Ala Arg Gly Ser Asn Ser Leu Pro Leu Leu Arg Ser
    130                 135                 140
Val Leu Asp Lys Leu Ser Ala Asn Gln Gln Asn Ile Leu Lys Phe Ile
145                 150                 155                 160
Ala Cys Asn Glu Ile Phe Leu Met Pro Ala Thr Val Phe Met Leu Phe
                165                 170                 175
Ser Gly Gln Gly Ser Leu Leu Gln Pro Phe Ile Tyr Tyr Arg Phe Leu
            180                 185                 190
Thr Leu Arg Tyr Ser Ser Arg Arg Asn Pro Tyr Cys Arg Thr Leu Phe
        195                 200                 205
Asn Glu Leu Arg Ile Val Val Glu His Ile Ile Met Lys Pro Ala Cys
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (174)..(1700)

<400> 11547

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<211> 509
<212> PRT
<213> Homo sapiens

<400> 11548

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Arg His Met Gln Lys Gly Arg Val Glu Thr Ser Arg Val Val His Ile
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Met Asp Phe Gln Arg Gly Lys Asn Leu Arg Tyr Gln Leu Leu Gln Leu
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Val Glu Pro Phe Gly Val Ile Ser Asn His Leu Ile Leu Asn Lys Ile
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Asn Glu Ala Phe Ile Glu Met Ala Thr Thr Glu Asp Ala Gln Ala Ala
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Val Asp Tyr Tyr Thr Thr Thr Pro Ala Leu Val Phe Gly Lys Pro Val
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Lys Pro Asp Gln Lys Phe Asp Gln Lys Gln Glu Leu Gly Arg Val Ile
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His Leu Ser Asn Leu Pro His Ser Gly Tyr Ser Asp Ser Ala Val Leu
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Lys Leu Ala Glu Pro Tyr Gly Lys Ile Lys Asn Tyr Ile Leu Met Arg
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Met Lys Ser Gln Ala Phe Ile Glu Met Glu Thr Arg Glu Asp Ala Met
        195                 200                 205
Ala Met Val Asp His Cys Leu Lys Lys Ala Leu Trp Phe Gln Gly Arg
    210                 215                 220
Cys Val Lys Val Asp Leu Ser Glu Lys Tyr Lys Lys Leu Val Leu Arg
225                 230                 235                 240
Ile Pro Asn Arg Gly Ile Asp Leu Leu Lys Lys Asp Lys Ser Arg Lys
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Arg Ser Tyr Ser Pro Asp Gly Lys Glu Ser Pro Ser Asp Lys Lys Ser
            260                 265                 270
Lys Thr Asp Gly Ser Gln Lys Thr Glu Ser Ser Thr Glu Gly Lys Glu
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Gln Glu Glu Lys Ser Gly Glu Asp Gly Glu Lys Asp Thr Lys Asp Asp
    290                 295                 300
Gln Thr Glu Gln Glu Pro Asn Met Leu Leu Glu Ser Glu Asp Glu Leu
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Leu Val Asp Glu Glu Glu Ala Ala Ala Leu Leu Glu Ser Gly Ser Ser
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Val Gly Asp Glu Thr Asp Leu Ala Asn Leu Gly Asp Val Ala Ser Asp
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Gly Lys Lys Glu Pro Ser Asp Lys Ala Val Lys Lys Asp Gly Ser Ala
        355                 360                 365
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Leu Asp Gln Glu Asn Glu Ala Ala Leu Glu Asn Gly Ile Lys Asn Glu
385                 390                 395                 400
Glu Asn Thr Glu Pro Gly Ala Glu Ser Ser Glu Asn Ala Asp Asp Pro
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Asn Lys Asp Thr Ser Glu Asn Ala Asp Gly Gln Ser Asp Glu Asn Lys
            420                 425                 430
Asp Asp Tyr Thr Ile Pro Asp Glu Tyr Arg Ile Gly Pro Tyr Gln Pro
        435                 440                 445
Asn Val Pro Val Gly Ile Asp Tyr Val Ile Pro Lys Thr Gly Phe Tyr
    450                 455                 460
Cys Lys Leu Cys Ser Leu Phe Tyr Thr Asn Glu Glu Val Ala Lys Asn
465                 470                 475                 480
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (214)..(1536)

<400> 11549

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gaagaagcag ccctgaataa atgctacaga gtgatggatt tgatttgtga gaaatgtatg 840
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0882470.5452.0

0095/0505/2003

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<211> 441
<212> PRT
<213> Homo sapiens

<400> 11550
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20 25 30
Ser Ser Lys Asn Val Arg Val Asn Cys Leu Asp Glu Asn Gly Met Thr
35 40 45
Pro Leu Met His Ala Ala Tyr Lys Gly Lys Leu Asp Met Cys Lys Leu
50 55 60
Leu Leu Arg His Gly Ala Asp Val Asn Cys His Gln His Glu His Gly
65 70 75 80
Tyr Thr Ala Leu Met Phe Ala Ala Leu Ser Gly Asn Lys Asp Ile Thr
85 90 95
Trp Val Met Leu Glu Ala Gly Ala Glu Thr Asp Val Val Asn Ser Val

0002470.0950250

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Gly Arg Thr Ala Ala Gln Met Ala Ala Phe Val Asp Gln His Asp Cys
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Val Thr Ile Ile Asn Asn Phe Phe Pro Arg Glu Arg Leu Asp Tyr Tyr
    130                 135                 140
Thr Lys Pro Gln Gly Leu Asp Lys Glu Pro Lys Leu Pro Pro Lys Leu
145                 150                 155                 160
Ala Gly Pro Leu His Lys Ile Ile Thr Thr Thr Asn Leu His Pro Val
                165                 170                 175
Lys Ile Val Met Leu Val Asn Glu Asn Pro Leu Leu Thr Glu Glu Ala
            180                 185                 190
Ala Leu Asn Lys Cys Tyr Arg Val Met Asp Leu Ile Cys Glu Lys Cys
        195                 200                 205
Met Lys Gln Arg Asp Met Asn Glu Val Leu Ala Met Lys Met His Tyr
    210                 215                 220
Ile Ser Cys Ile Phe Gln Lys Cys Ile Asn Phe Leu Lys Asp Gly Glu
225                 230                 235                 240
Asn Lys Leu Asp Thr Leu Ile Lys Ser Leu Leu Lys Gly Arg Ala Ser
                245                 250                 255
Asp Gly Phe Pro Val Tyr Gln Glu Lys Ile Ile Arg Glu Ser Ile Arg
            260                 265                 270
Lys Phe Pro Tyr Cys Glu Ala Thr Leu Leu Gln Gln Leu Val Arg Ser
        275                 280                 285
Ile Ala Pro Val Glu Ile Gly Ser Asp Pro Thr Ala Phe Ser Val Leu
    290                 295                 300
Thr Gln Ala Ile Thr Gly Gln Val Gly Phe Val Asp Val Glu Phe Cys
305                 310                 315                 320
Thr Thr Cys Gly Glu Lys Gly Ala Ser Lys Arg Cys Ser Val Cys Lys
                325                 330                 335
Met Val Ile Tyr Cys Ala Gln Thr Cys Gln Arg Thr His Trp Phe Thr
            340                 345                 350
His Lys Lys Ile Cys Lys Asn Leu Lys Asp Ile Tyr Glu Lys Gln Gln
        355                 360                 365
Leu Glu Ala Ala Lys Glu Lys Arg Gln Glu Glu Asn His Gly Lys Leu
    370                 375                 380
Asp Val Asn Ser Asn Cys Val Asn Glu Glu Gln Pro Glu Ala Glu Val
385                 390                 395                 400
Gly Ile Ser Gln Lys Asp Ser Asn Pro Glu Asp Ser Gly Glu Gly Lys
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Lys Glu Ser Leu Glu Ser Glu Ala Glu Leu Glu Gly Leu Gln Asp Ala
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Pro Ala Gly Pro Gln Val Ser Glu Glu
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<211> 1831
<212> DNA

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<213> Homo sapiens

<220>
<221> CDS
<222> (72)..(410)

<400> 11551
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<210> 11552
<211> 113
<212> PRT
<213> Homo sapiens

<400> 11552
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Gly Pro Val Ser Leu Gly Trp Pro Val Pro Ser Arg Ser Ser Gly Pro
35 40 45
Thr Val Asp Gln Leu Glu Glu Val Glu Leu Gln Ile Gly Asp Ala Ala
50 55 60
Phe Ser Leu Thr Lys Leu Leu Glu Ala Thr Ser Ala Val Ser Ala Gln
65 70 75 80
Val Glu Glu Leu Ala Phe Lys Cys Thr Glu Asn Ala Arg Phe Leu Lys
85 90 95
Thr Trp Arg Asp Leu Leu Lys Glu Gly Tyr Asp Ser Leu Lys Pro Asp
100 105 110
Asp

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<210> 11553
<211> 3458
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (47)..(2764)

<400> 11553
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<210> 11554
<211> 906
<212> PRT
<213> Homo sapiens

<400> 11554
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20 25 30

0066740 6/6/2 6/6/2 6/6/2

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Pro Gln Pro Ser Ile Leu Gln Pro Gly Ser Gln Val Leu Pro Pro Pro
          35                  40                  45
Pro Thr Thr Leu Asn Gly Pro Gly Ala Ser Pro Leu Pro Leu Pro Met
      50                  55                  60
Tyr Arg Pro Asp Gly Leu Ser Gly Pro Pro Pro Pro Asn Ala Gln Tyr
 65                  70                  75                  80
Gln Pro Pro Pro Leu Pro Gly Gln Thr Leu Gly Ala Gly Tyr Pro Pro
                 85                  90                  95
Gln Gln Ala Asn Ser Gly Pro Gln Met Ala Gly Ala Gln Leu Ser Tyr
            100                 105                 110
Pro Gly Gly Phe Pro Gly Gly Pro Ala Gln Met Ala Gly Pro Pro Gln
        115                 120                 125
Pro Gln Lys Lys Leu Asp Pro Asp Ser Ile Pro Ser Pro Ile Gln Val
    130                 135                 140
Ile Glu Asn Asp Arg Ala Ser Arg Gly Gly Gln Val Tyr Ala Thr Asn
145                 150                 155                 160
Thr Arg Gly Gln Ile Pro Pro Leu Val Thr Thr Asp Cys Met Ile Gln
                165                 170                 175
Asp Gln Gly Asn Ala Ser Pro Arg Phe Ile Arg Cys Thr Thr Tyr Cys
            180                 185                 190
Phe Pro Cys Thr Ser Asp Met Ala Lys Gln Ala Gln Ile Pro Leu Ala
        195                 200                 205
Ala Val Ile Lys Pro Phe Ala Thr Ile Pro Ser Asn Glu Ser Pro Leu
    210                 215                 220
Tyr Leu Val Asn His Gly Glu Ser Gly Pro Val Arg Cys Asn Arg Cys
225                 230                 235                 240
Lys Ala Tyr Met Cys Pro Phe Met Gln Phe Ile Glu Gly Gly Arg Arg
                245                 250                 255
Tyr Gln Cys Gly Phe Cys Asn Cys Val Asn Asp Val Pro Pro Phe Tyr
            260                 265                 270
Phe Gln His Leu Asp His Ile Gly Arg Arg Leu Asp His Tyr Glu Lys
        275                 280                 285
Pro Glu Leu Ser Leu Gly Ser Tyr Glu Tyr Val Ala Thr Leu Asp Tyr
    290                 295                 300
Cys Arg Lys Ser Lys Pro Pro Asn Pro Pro Ala Phe Ile Phe Met Ile
305                 310                 315                 320
Asp Val Ser Tyr Ser Asn Ile Lys Asn Gly Leu Val Lys Leu Ile Cys
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Glu Glu Leu Lys Thr Met Leu Glu Lys Ile Pro Lys Glu Glu Gln Glu
            340                 345                 350
Glu Thr Ser Ala Ile Arg Val Gly Phe Ile Thr Tyr Asn Lys Val Leu
        355                 360                 365
His Phe Phe Asn Val Lys Ser Asn Leu Ala Gln Pro Gln Met Met Val
    370                 375                 380
Val Thr Asp Val Gly Glu Val Phe Val Pro Leu Leu Asp Gly Phe Leu
385                 390                 395                 400
Val Asn Tyr Gln Glu Ser Gln Ser Val Ile His Asn Leu Leu Asp Gln
                405                 410                 415
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Ile Pro Asp Met Phe Ala Asp Ser Asn Glu Asn Glu Thr Val Phe Ala
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Pro Val Ile Gln Ala Gly Met Glu Ala Leu Lys Ala Ala Asp Cys Pro
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Gly Lys Leu Phe Ile Phe His Ser Ser Leu Pro Thr Ala Glu Ala Pro
450 455 460
Gly Lys Leu Lys Asn Arg Asp Asp Lys Lys Leu Val Asn Thr Asp Lys
465 470 475 480
Glu Lys Ile Leu Phe Gln Pro Gln Thr Asn Val Tyr Asp Ser Leu Ala
485 490 495
Lys Asp Cys Val Ala His Gly Cys Ser Val Thr Leu Phe Leu Phe Pro
500 505 510
Ser Gln Tyr Val Asp Val Ala Ser Leu Gly Leu Val Pro Gln Leu Thr
515 520 525
Gly Gly Thr Leu Tyr Lys Tyr Asn Asn Phe Gln Met His Leu Asp Arg
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Gln Gln Phe Leu Asn Asp Leu Arg Asn Asp Ile Glu Lys Lys Ile Gly
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Phe Asp Ala Ile Met Arg Val Arg Thr Ser Thr Gly Phe Arg Ala Thr
565 570 575
Asp Phe Phe Gly Gly Ile Leu Met Asn Asn Thr Thr Asp Val Glu Met
580 585 590
Ala Ala Ile Asp Cys Asp Lys Ala Val Thr Val Glu Phe Lys His Asp
595 600 605
Asp Lys Leu Ser Glu Asp Ser Gly Ala Leu Ile Gln Cys Ala Val Leu
610 615 620
Tyr Thr Thr Ile Ser Gly Gln Arg Arg Leu Arg Ile His Asn Leu Gly
625 630 635 640
Leu Asn Cys Ser Ser Gln Leu Ala Asp Leu Tyr Lys Ser Cys Glu Thr
645 650 655
Asp Ala Leu Ile Asn Phe Phe Ala Lys Ser Ala Phe Lys Ala Val Leu
660 665 670
His Gln Pro Leu Lys Val Ile Arg Glu Ile Leu Val Asn Gln Thr Ala
675 680 685
His Met Leu Ala Cys Tyr Arg Lys Asn Cys Ala Ser Pro Ser Ala Ala
690 695 700
Ser Gln Leu Ile Leu Pro Asp Ser Met Lys Val Leu Pro Val Tyr Met
705 710 715 720
Asn Cys Leu Leu Lys Asn Cys Val Leu Leu Ser Arg Pro Glu Ile Ser
725 730 735
Thr Asp Glu Arg Ala Tyr Gln Arg Gln Leu Val Met Thr Met Gly Val
740 745 750
Ala Asp Ser Gln Leu Phe Phe Tyr Pro Gln Leu Leu Pro Ile His Thr
755 760 765
Leu Asp Val Lys Ser Thr Met Leu Pro Ala Ala Val Arg Cys Ser Glu
770 775 780
Ser Arg Leu Ser Glu Glu Gly Ile Phe Leu Leu Ala Asn Gly Leu His
785 790 795 800

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Met Phe Leu Trp Leu Gly Val Ser Ser Pro Pro Glu Leu Ile Gln Gly
805 810 815
Ile Phe Asn Val Pro Ser Phe Ala His Ile Asn Thr Asp Met Thr Leu
820 825 830
Leu Pro Glu Val Gly Asn Pro Tyr Ser Gln Gln Leu Arg Met Ile Met
835 840 845
Gly Ile Ile Gln Gln Lys Arg Pro Tyr Ser Ile Lys Leu Thr Ile Val
850 855 860
Lys Gln Arg Glu Gln Pro Glu Met Val Phe Arg Gln Phe Leu Val Glu
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Asp Lys Gly Leu Tyr Gly Gly Ser Ser Tyr Val Asp Phe Leu Cys Cys
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Val His Lys Glu Ile Cys Gln Leu Leu Asn
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<211> 2428
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (199)..(2013)

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ccagcccagc ctcagagaag atctcttagg ctttctgctc agaaggattt ggaacagaaa 180
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catactgtgc cttgtatgcc acctgcaaag cagaagtttc taaaaagtac tgaggagcaa 420
gagctggaga agagtatgaa aatgcagcaa gaggtggtgg agatgcggaa aaagaatgaa 480
gaattcaaga aacttgctct ggctggaata gggcaacctg tgaagaaatc agtgagccag 540
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aaccaggagg aatataagga agtgaacttt acatctgaac tacgaaagca tccttcatct 660
cctgcccgag tgactaaggg atgtaccatt gttaagcctt tcaacctgtc ccaaggaaag 720
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caactgtgga ctccagtttt gttgagaatt gttttcttac attactaagg ctaataatga 2220
gatgtaactc atgaatgtct cgattagact ccatgtagtt acttccttta aaccatcagc 2280
cggcctttta tatgggtctt cactctgact agaatttagt ctctgtgtca gcacagtgta 2340
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<211> 605
<212> PRT
<213> Homo sapiens

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35 40 45
Glu Lys Ala Lys Gly Arg His Thr Val Pro Cys Met Pro Pro Ala Lys
50 55 60
Gln Lys Phe Leu Lys Ser Thr Glu Glu Gln Glu Leu Glu Lys Ser Met
65 70 75 80
Lys Met Gln Gln Glu Val Val Glu Met Arg Lys Lys Asn Glu Glu Phe
85 90 95
Lys Lys Leu Ala Leu Ala Gly Ile Gly Gln Pro Val Lys Lys Ser Val
100 105 110
Ser Gln Val Thr Lys Ser Val Asp Phe His Phe Arg Thr Asp Glu Arg
115 120 125
Ile Lys Gln His Pro Lys Asn Gln Glu Glu Tyr Lys Glu Val Asn Phe
130 135 140
Thr Ser Glu Leu Arg Lys His Pro Ser Ser Pro Ala Arg Val Thr Lys
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Gly Cys Thr Ile Val Lys Pro Phe Asn Leu Ser Gln Gly Lys Lys Arg

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            195                 200                 205
Lys Asp Asp Ile Asn Leu Leu Pro Ser Lys Ser Ser Val Thr Lys Ile
    210                 215                 220
Cys Arg Asp Pro Gln Thr Pro Val Leu Gln Thr Lys His Arg Ala Arg
225                 230                 235                 240
Ala Val Thr Cys Lys Ser Thr Ala Glu Leu Glu Ala Glu Glu Leu Glu
                245                 250                 255
Lys Leu Gln Gln Tyr Lys Phe Lys Ala Arg Glu Leu Asp Pro Arg Ile
            260                 265                 270
Leu Glu Gly Gly Pro Ile Leu Pro Lys Lys Pro Pro Val Lys Pro Pro
        275                 280                 285
Thr Glu Pro Ile Gly Phe Asp Leu Glu Ile Glu Lys Arg Ile Gln Glu
    290                 295                 300
Arg Glu Ser Lys Lys Lys Thr Glu Asp Glu His Phe Glu Phe His Ser
305                 310                 315                 320
Arg Pro Cys Pro Thr Lys Ile Leu Glu Asp Val Val Gly Val Pro Glu
                325                 330                 335
Lys Lys Val Leu Pro Ile Thr Val Pro Lys Ser Pro Ala Phe Ala Leu
            340                 345                 350
Lys Asn Arg Ile Arg Met Pro Thr Lys Glu Asp Glu Glu Glu Asp Glu
        355                 360                 365
Pro Val Val Ile Lys Ala Gln Pro Val Pro His Tyr Gly Val Pro Phe
    370                 375                 380
Lys Pro Gln Ile Pro Glu Ala Arg Thr Val Glu Ile Cys Pro Phe Ser
385                 390                 395                 400
Phe Asp Ser Arg Asp Lys Glu Arg Gln Leu Gln Lys Glu Lys Lys Ile
                405                 410                 415
Lys Glu Leu Gln Lys Gly Glu Val Pro Lys Phe Lys Ala Leu Pro Leu
            420                 425                 430
Pro His Phe Asp Thr Ile Asn Leu Pro Glu Lys Lys Val Lys Asn Val
        435                 440                 445
Thr Gln Ile Glu Pro Phe Cys Leu Glu Thr Asp Arg Arg Gly Ala Leu
    450                 455                 460
Lys Ala Gln Thr Trp Lys His Gln Leu Glu Glu Glu Leu Arg Gln Gln
465                 470                 475                 480
Lys Glu Ala Ala Cys Phe Lys Ala Arg Pro Asn Thr Val Ile Ser Gln
                485                 490                 495
Glu Pro Phe Val Pro Lys Lys Glu Lys Lys Ser Val Ala Glu Gly Leu
            500                 505                 510
Ser Gly Ser Leu Val Gln Glu Pro Phe Gln Leu Ala Thr Glu Lys Arg
        515                 520                 525
Ala Lys Glu Arg Gln Glu Leu Glu Lys Arg Met Ala Glu Val Glu Ala
    530                 535                 540
Gln Gln Leu Glu Glu Ala Arg Leu Gln Glu Glu Glu Gln Lys Lys Glu
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545                 550                 555                 560
Glu Leu Ala Arg Leu Arg Arg Glu Leu Val His Lys Ala Asn Pro Ile
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<210> 11557
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (75)..(2636)

<400> 11557

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09/25/2006 09:45:50

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<211> 854
<212> PRT
<213> Homo sapiens

<400> 11558
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Arg Lys Asp Pro Leu Arg His Leu Arg Thr Arg Glu Lys Arg Gly Pro
         35                  40                  45
Ser Gly Cys Ser Gly Gly Pro Asn Thr Val Tyr Leu Gln Val Val Ala
     50                  55                  60
Ala Gly Ser Arg Asp Ser Gly Ala Ala Leu Tyr Val Phe Ser Glu Phe
 65                  70                  75                  80
Asn Arg Tyr Leu Phe Asn Cys Gly Glu Gly Val Gln Arg Leu Met Gln
                 85                  90                  95
Glu His Lys Leu Lys Val Ala Arg Leu Asp Asn Ile Phe Leu Thr Arg
            100                 105                 110
Met His Trp Ser Asn Val Gly Gly Leu Ser Gly Met Ile Leu Thr Leu
        115                 120                 125
Lys Glu Thr Gly Leu Pro Lys Cys Val Leu Ser Gly Pro Pro Gln Leu
    130                 135                 140
Glu Lys Tyr Leu Glu Ala Ile Lys Ile Phe Ser Gly Pro Leu Lys Gly
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145 150 155 160
Ile Glu Leu Ala Met Arg Pro His Ser Ala Pro Glu Tyr Glu Asp Glu
165 170 175
Thr Met Thr Val Tyr Gln Ile Pro Ile His Ser Glu Gln Arg Arg Gly
180 185 190
Lys His Gln Pro Trp Gln Ser Pro Glu Arg Pro Leu Ser Arg Leu Ser
195 200 205
Pro Glu Arg Ser Ser Asp Ser Glu Ser Asn Glu Asn Glu Pro His Leu
210 215 220
Pro His Gly Val Ser Gln Arg Arg Gly Val Arg Asp Ser Ser Leu Val
225 230 235 240
Val Ala Phe Ile Cys Lys Leu His Leu Lys Arg Gly Asn Phe Leu Val
245 250 255
Leu Lys Ala Lys Glu Met Gly Leu Pro Val Gly Thr Ala Ala Ile Ala
260 265 270
Pro Ile Ile Ala Ala Val Lys Asp Gly Lys Ser Ile Thr His Glu Gly
275 280 285
Arg Glu Ile Leu Ala Glu Glu Leu Cys Thr Pro Pro Asp Pro Gly Ala
290 295 300
Ala Phe Val Val Val Glu Cys Pro Asp Glu Ser Phe Ile Gln Pro Ile
305 310 315 320
Cys Glu Asn Ala Thr Phe Gln Arg Tyr Gln Gly Lys Ala Asp Ala Pro
325 330 335
Val Ala Leu Val Val His Met Ala Pro Ala Ser Val Leu Val Asp Ser
340 345 350
Arg Tyr Gln Gln Trp Met Glu Arg Phe Gly Pro Asp Thr Gln His Leu
355 360 365
Val Leu Asn Glu Asn Cys Ala Ser Val His Asn Leu Arg Ser His Lys
370 375 380
Ile Gln Thr Gln Leu Asn Leu Ile His Pro Asp Ile Phe Pro Leu Leu
385 390 395 400
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405 410 415
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420 425 430
Gln Arg Asp Ala Ile Ile Thr Cys Asn Pro Glu Glu Phe Ile Val Glu
435 440 445
Ala Leu Gln Leu Pro Asn Phe Gln Gln Ser Val Gln Glu Tyr Arg Arg
450 455 460
Ser Ala Gln Asp Gly Pro Ala Pro Ala Glu Lys Arg Ser Gln Tyr Pro
465 470 475 480
Glu Ile Ile Phe Leu Gly Thr Gly Ser Ala Ile Pro Met Lys Ile Arg
485 490 495
Asn Val Ser Ala Thr Leu Val Asn Ile Ser Pro Asp Thr Ser Leu Leu
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Leu Asp Cys Gly Glu Gly Thr Phe Gly Gln Leu Cys Arg His Tyr Gly
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Asp Gln Val Asp Arg Val Leu Gly Thr Leu Ala Ala Val Phe Val Ser

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545                 550                 555                 560
Arg Glu Arg Ala Leu Ala Ser Leu Gly Lys Pro Leu His Pro Leu Leu
                565                 570                 575
Val Val Ala Pro Asn Gln Leu Lys Ala Trp Leu Gln Gln Tyr Tyr Asn
            580                 585                 590
Gln Cys Gln Glu Val Leu His His Ile Ser Met Ile Pro Ala Lys Cys
        595                 600                 605
Leu Gln Glu Gly Ala Glu Ile Ser Ser Pro Ala Val Glu Arg Leu Ile
    610                 615                 620
Ser Ser Leu Leu Arg Thr Cys Asp Leu Glu Glu Phe Gln Thr Cys Leu
625                 630                 635                 640
Val Arg His Cys Lys His Ala Phe Gly Cys Ala Leu Val His Thr Ser
                645                 650                 655
Gly Trp Lys Val Val Tyr Ser Gly Asp Thr Met Pro Cys Glu Ala Leu
            660                 665                 670
Val Arg Met Gly Lys Asp Ala Thr Leu Leu Ile His Glu Ala Thr Leu
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Glu Asp Gly Leu Glu Glu Glu Ala Val Glu Lys Thr His Ser Thr Thr
    690                 695                 700
Ser Gln Ala Ile Ser Val Gly Met Arg Met Asn Ala Glu Phe Ile Met
705                 710                 715                 720
Leu Asn His Phe Ser Gln Arg Tyr Ala Lys Val Pro Leu Phe Ser Pro
                725                 730                 735
Asn Phe Ser Glu Lys Val Gly Val Ala Phe Asp His Met Lys Val Cys
            740                 745                 750
Leu Gly Asp Phe Pro Thr Met Pro Lys Leu Ile Pro Pro Leu Lys Ala
        755                 760                 765
Leu Phe Ala Gly Asp Ile Glu Glu Met Glu Glu Arg Arg Glu Lys Arg
    770                 775                 780
Glu Leu Arg Gln Val Arg Ala Ala Leu Leu Ser Arg Glu Leu Ala Gly
785                 790                 795                 800
Gly Leu Glu Asp Gly Ser Leu Ser Arg Ser Gly Pro Thr Gln Arg Ser
                805                 810                 815
His Arg Pro Arg Arg Ser Glu Pro Ser Glu Asp Leu Gly Asp Pro Glu
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<211> 1389
<212> DNA
<213> Homo sapiens

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Val Pro Ser Glu Glu Asn Asn Leu Val Gly Thr Leu Lys Ile Ser Gly
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Tyr Val Arg Gly Gln Thr Leu Asn Val Asn Arg Leu Leu His Ile Val
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Gly Tyr Gly Asp Phe Gln Met Lys Gln Ile Asp Ala Pro Gly Asp Pro
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Phe Pro Leu Asn Pro Arg Gly Ile Lys Pro Gln Lys Asp Pro Asp Met
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Ala Met Glu Ile Cys Ala Thr Asp Ala Val Asp Asp Met Glu Glu Gly
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Leu Lys Val Leu Met Lys Ala Asp Pro Cys Arg Gln Glu Ser Leu Gln
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Ala Glu Val Ile Pro Asp Pro Met Glu Gly Glu Gln Thr Trp Pro Thr
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Glu Glu Glu Leu Ser Glu Ala Lys Asp Phe Leu Lys Glu Ser Ser Lys
225                 230                 235                 240
Val Val Lys Lys Val Pro Lys Gly Thr Ser Ser Tyr Gln Ala Glu Trp
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Ile Leu Asp Gly Gly Ser Gln Ser Gly Gly Glu Gly Asp Glu Tyr Glu
            260                 265                 270
Tyr Asp Asp Met Glu His Glu Asp Phe Met Glu Glu Glu Ser Gln Asp
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Glu Ser Ser Glu Glu Glu Glu Glu Tyr Glu Thr Met Thr Ile Gly Glu
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Ser Val His Asp Asp Leu Tyr Asp Lys Lys Val Asp Glu Glu Ala Glu
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Ala Lys Met Leu Glu Lys Tyr Lys Gln Glu Arg Leu Glu Glu Met Phe
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Pro Asp Glu Val Asp Thr Pro Arg Asp Val Ala Ala Arg Ile Arg Phe
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Gln Lys Tyr Arg Gly Leu Lys Ser Phe Arg Thr Ser Pro Trp Asp Pro
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Lys Glu Asn Leu Pro Gln Asp Tyr Ala Arg Ile Phe Gln Phe Gln Asn
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Val Glu Gly Ala Glu Val Gly Trp Tyr Val Thr Leu His Val Ser Glu
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Pro Pro Ala Ser Val Leu Leu Phe Lys Gln Lys Ser Asn Gly Met His
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Ile Lys Glu Pro Leu Gly Thr His Gly His Met Lys Cys Ser Phe Asp
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Gly Lys Leu Lys Ser Gln Asp Thr Val Leu Met Asn Leu Tyr Lys Arg
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<212> PRT
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Glu Glu Thr His Leu Thr Ser Leu Asp Pro Val Lys Gln Phe Ala Ala

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            100                 105                 110
Phe Glu Ser Arg Lys Gly Lys Glu Leu Asp Ser Asn Pro Phe Ala Ser
        115                 120                 125
Leu Val Phe Tyr Trp Glu Pro Leu Asn Arg Gln Val Arg Val Glu Gly
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Pro Val Lys Lys Leu Pro Glu Glu Glu Ala Glu Cys Tyr Phe His Ser
145                 150                 155                 160
Arg Pro Lys Ser Ser Gln Ile Gly Ala Val Val Ser His Gln Ser Ser
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Val Ile Pro Asp Arg Glu Tyr Leu Arg Lys Lys Asn Glu Glu Leu Glu
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Gln Leu Tyr Gln Asp Gln Glu Val Pro Lys Pro Lys Ser Trp Gly Gly
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Tyr Val Leu Tyr Pro Gln Val Met Glu Phe Trp Gln Gly Gln Thr Asn
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Arg Leu His Asp Arg Ile Val Phe Arg Arg Gly Leu Pro Thr Gly Asp
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<222> (196)..(1488)

<400> 11566

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<211> 431
<212> PRT
<213> Homo sapiens

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35 40 45
Lys Ser Pro Pro Tyr Lys Phe Ile His Met Leu Lys Gly Ile Ser Ile
50 55 60
Tyr Pro Glu Thr Leu Ser Asn Lys Lys Lys Ile Ile Lys Val Arg Arg
65 70 75 80

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Gly Glu Glu Leu Arg Ser Pro Ile Thr Ser Leu Thr Pro Gly Glu Ser
    130                 135                 140
Lys Thr Thr Ser Pro Ser Ser Pro Glu Glu Asp Val Met Leu Gly Ser
145                 150                 155                 160
Leu Thr Phe Ser Val Asp Tyr Asn Phe Pro Lys Lys Ala Leu Val Val
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Thr Ile Gln Glu Ala His Gly Leu Pro Val Met Asp Asp Gln Thr Gln
            180                 185                 190
Gly Ser Asp Pro Tyr Ile Lys Met Thr Ile Leu Pro Asp Lys Arg His
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Arg Val Lys Thr Arg Val Leu Arg Lys Thr Leu Asp Pro Val Phe Asp
    210                 215                 220
Glu Thr Phe Thr Phe Tyr Gly Ile Pro Tyr Ser Gln Leu Gln Asp Leu
225                 230                 235                 240
Val Leu His Phe Leu Val Leu Ser Phe Asp Arg Phe Ser Arg Asp Asp
                245                 250                 255
Val Ile Gly Glu Val Met Val Pro Leu Ala Gly Ala Asp Pro Ser Thr
            260                 265                 270
Gly Lys Val Gln Leu Thr Arg Asp Ile Ile Lys Arg Asn Ile Gln Lys
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Cys Ile Ser Arg Gly Glu Leu Gln Val Ser Leu Ser Tyr Gln Pro Val
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Ala Gln Arg Met Thr Val Val Val Leu Lys Ala Arg His Leu Pro Lys
305                 310                 315                 320
Met Asp Ile Thr Gly Leu Ser Gly Asn Pro Tyr Val Lys Val Asn Val
                325                 330                 335
Tyr Tyr Gly Arg Lys Arg Ile Ala Lys Lys Lys Thr His Val Lys Lys
            340                 345                 350
Cys Thr Leu Asn Pro Ile Phe Asn Glu Ser Phe Ile Tyr Asp Ile Pro
        355                 360                 365
Thr Asp Leu Leu Pro Asp Ile Ser Ile Glu Phe Leu Val Ile Asp Phe
    370                 375                 380
Asp Arg Thr Thr Lys Asn Glu Val Val Gly Arg Leu Ile Leu Gly Ala
385                 390                 395                 400
His Ser Val Thr Ala Ser Gly Ala Glu His Trp Arg Glu Val Cys Glu
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Ser Pro Arg Lys Pro Val Ala Lys Trp His Ser Leu Ser Glu Tyr
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<212> DNA
<213> Homo sapiens

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<211> 2361
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1187)..(1744)

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<211> 186
<212> PRT
<213> Homo sapiens

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Ser Thr Phe Leu Ser Gln Thr Thr Tyr Ala Leu Ile Glu Ala Ile Thr
35 40 45
Glu Tyr Thr Lys Ala Val Tyr Thr Leu Thr Ser Leu Tyr Arg Gln Tyr
50 55 60
Thr Ser Leu Leu Gly Lys Met Asn Ser Glu Glu Glu Asp Glu Val Trp
65 70 75 80
Gln Val Ile Ile Gly Ala Arg Ala Glu Met Thr Ser Lys His Gln Glu
85 90 95
Tyr Leu Lys Leu Glu Thr Thr Trp Met Thr Ala Val Gly Leu Ser Glu
100 105 110
Met Ala Ala Glu Ala Ala Tyr Gln Thr Gly Ala Asp Gln Ala Ser Ile

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        115                 120                 125
Thr Ala Arg Asn His Ile Gln Leu Val Lys Leu Gln Val Glu Glu Val
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Ser Glu Gln Glu Ala Tyr Leu Arg Glu Asp
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<211> 2513
<212> DNA
<213> Homo sapiens

<220>
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<211> 310
<212> PRT
<213> Homo sapiens

<400> 11572
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35 40 45
Met Asp Phe Glu Leu Leu Pro Asp Asp Glu Arg Gln Cys Val Lys Cys
50 55 60
Lys Thr Thr Cys Phe Met Ser Ala Ile Ser Cys Ser Cys Lys Pro Gly
65 70 75 80
Leu Leu Val Cys Leu His His Val Lys Glu Leu Cys Ser Cys Pro Pro
85 90 95
Tyr Lys Tyr Lys Leu Arg Tyr Arg Tyr Thr Leu Asp Asp Leu Tyr Pro
100 105 110
Met Met Asn Ala Leu Lys Leu Arg Ala Glu Ser Tyr Asn Glu Trp Ala
115 120 125
Leu Asn Val Asn Glu Ala Leu Glu Ala Lys Ile Asn Lys Lys Lys Ser
130 135 140
Leu Val Ser Phe Lys Ala Leu Ile Glu Glu Ser Glu Met Lys Lys Phe
145 150 155 160
Pro Asp Asn Asp Leu Leu Arg His Leu Arg Leu Val Thr Gln Asp Ala
165 170 175
Glu Lys Cys Ala Ser Val Ala Gln Gln Leu Leu Asn Gly Lys Arg Gln
180 185 190
Thr Arg Tyr Arg Ser Gly Gly Gly Lys Ser Gln Asn Gln Leu Thr Val

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Leu Ser Gln Thr Pro Leu Leu Lys Asp Leu Leu Asn Arg Val Glu Asp
225                 230                 235                 240
Phe Gln Gln His Ser Gln Lys Leu Leu Ser Glu Glu Thr Pro Ser Ala
                245                 250                 255
Ala Glu Leu Gln Asp Leu Leu Asp Val Ser Phe Glu Phe Asp Val Glu
            260                 265                 270
Leu Pro Gln Leu Ala Glu Met Arg Ile Arg Leu Glu Gln Ala Arg Trp
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (280)..(1836)

<400> 11573

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<211> 519
<212> PRT
<213> Homo sapiens

<400> 11574
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Leu Thr Ala Leu Leu Ala Pro Arg Lys Ser Arg Thr Ala Lys Pro Leu
35 40 45
Val Glu Glu Ile Gly Ala Ser Glu Ile Pro Glu Glu Val Val Asp Asp
50 55 60
Glu Glu Phe Asp Trp Glu Ile Glu Gln Thr Pro Cys Glu Glu Val Ser
65 70 75 80
Glu Ser Ala Leu Asn Pro Gln Cys His Tyr Gly Phe Gly Asn Leu Arg
85 90 95
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Phe Phe Glu Asp Glu Ala Ile Glu Gln Ile Leu Lys Tyr Asn Pro Trp
145                 150                 155                 160
Trp Thr Asp Lys Tyr Ser Lys Met Met Ala Phe Leu Glu Lys Ser Gln
                165                 170                 175
Glu Gln Glu Asn His Ala Thr Leu Val Ser Phe Ser Glu Glu Glu Lys
            180                 185                 190
Tyr Gln Leu Arg Lys Phe Val Asn Lys Ser Tyr Leu Leu Asp Lys Arg
        195                 200                 205
Ala Cys Arg Gln Val Cys Tyr Ser Leu Ile Asp Ile Leu Leu Ala Tyr
    210                 215                 220
Cys Tyr Glu Thr Arg Val Thr Glu Gly Glu Lys Asn Val Glu Ser Ala
225                 230                 235                 240
Trp Asn Ile Arg Lys Leu Ser Pro Thr Leu Cys Trp Phe Glu Thr Trp
                245                 250                 255
Thr Asn Val His Asp Ile Met Val Ser Phe Gly Arg Arg Val Leu Cys
            260                 265                 270
Tyr Pro Leu Tyr Arg His Phe Lys Leu Val Met Lys Ala Tyr Arg Asp
        275                 280                 285
Thr Ile Lys Ile Leu Gln Leu Gly Lys Ser Ala Val Leu Lys Cys Leu
    290                 295                 300
Leu Asp Ile His Lys Ile Phe Gln Glu Asn Asp Pro Ala Tyr Ile Leu
305                 310                 315                 320
Asn Asp Leu Tyr Ile Ser Asp Tyr Cys Val Trp Ile Gln Lys Val Lys
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Ser Lys Lys Leu Ala Ala Leu Ala Glu Ala Leu Lys Glu Val Ser Leu
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Thr Lys Ala Gln Leu Gly Leu Glu Leu Glu Glu Leu Glu Ala Ala Ala
        355                 360                 365
Leu Leu Val Gln Glu Glu Glu Thr Ala Leu Lys Ala Ala His Ser Val
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Ser Gly Gln Gln Thr Leu Cys Ser Ser Ser Glu Ala Ser Asp Ser Glu
385                 390                 395                 400
Asp Ser Asp Ser Ser Val Ser Ser Gly Asn Glu Asp Ser Gly Ser Asp
                405                 410                 415
Ser Glu Gln Asp Glu Leu Lys Asp Ser Pro Ser Glu Thr Val Ser Ser
            420                 425                 430
Leu Gln Gly Pro Phe Leu Glu Glu Ser Ser Ala Phe Leu Ile Ala Asp
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Gly Gly Val Arg Arg Asn Thr Ala Ile Gln Glu Ser Asp Ala Ser Gln
    450                 455                 460
Gly Lys Pro Leu Ala Ser Ser Trp Pro Leu Gly Val Ser Gly Pro Leu
465                 470                 475                 480
Ile Glu Glu Leu Gly Glu Gln Leu Lys Thr Thr Val Gln Val Ser Glu
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500 505 510
Gly Cys Gln Thr Pro Asn Asn
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<211> 2232
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (412)..(1104)

<400> 11575
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aatgcttatc aactcacaga gaaggacaaa gaaatacagc gactgagaga ccaactgaag 180
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aggagggagc aggtgttgaa agccttatct gaagagaaag acgtattgaa acaacagttg 300
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caaaccataa ctcagctgag ttttgaactg agtgaatttc gaagaaaata tgaagaaacc 720
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gaacaacaga tgcaggcatg tactttagac tttgaaaatg aaaaactcga ccgtcaacat 1020
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<210> 11576
<211> 231
<212> PRT
<213> Homo sapiens

<400> 11576
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Ile Phe Glu Leu Glu Lys Lys Thr Glu Thr Ala Ala His Ser Leu Pro
35 40 45
Gln Gln Thr Lys Lys Pro Glu Ser Glu Gly Tyr Leu Gln Glu Glu Lys
50 55 60
Gln Lys Cys Tyr Asn Asp Leu Leu Ala Ser Ala Lys Lys Asp Leu Glu
65 70 75 80
Val Glu Arg Gln Thr Ile Thr Gln Leu Ser Phe Glu Leu Ser Glu Phe
85 90 95
Arg Arg Lys Tyr Glu Glu Thr Gln Lys Glu Val His Asn Leu Asn Gln
100 105 110
Leu Leu Tyr Ser Gln Arg Arg Ala Asp Val Gln His Leu Glu Asp Asp
115 120 125
Arg His Lys Thr Glu Lys Ile Gln Lys Leu Arg Glu Glu Asn Asp Ile
130 135 140
Ala Arg Gly Lys Leu Glu Glu Glu Lys Lys Arg Ser Glu Glu Leu Leu
145 150 155 160
Ser Gln Val Gln Ser Leu Tyr Thr Ser Leu Leu Lys Gln Gln Glu Glu
165 170 175
Gln Thr Arg Val Ala Leu Leu Glu Gln Gln Met Gln Ala Cys Thr Leu
180 185 190
Asp Phe Glu Asn Glu Lys Leu Asp Arg Gln His Val Gln His Gln Leu
195 200 205
His Val Ile Leu Lys Glu Leu Arg Lys Ala Arg Lys Asn Asn Thr Val
210 215 220
Gly Ile Leu Glu Thr Ala Ser
225 230

<210> 11577

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0088704.0002

<211> 2149
<212> DNA
<213> Homo sapiens

<220>
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<210> 11578

<211> 557
<212> PRT
<213> Homo sapiens

<400> 11578

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Asp Glu Glu Arg Lys Leu Leu Val Asp Gln Met Arg Lys Arg Ser Pro
        35                  40                  45
Arg Val Asn Leu Cys Ile Lys Pro Val Thr Ser Phe Tyr Asp Ile Pro
    50                  55                  60
Ala Ser Ala Ser Val Asn Ile Gly Gln Leu Glu His Gln Leu Ile Leu
65                  70                  75                  80
Ser Val Asp Pro Trp Arg Ile Arg Gln Ile Leu Ile Glu Leu His Gly
                85                  90                  95
Met Thr Ser Glu Arg Gln Phe Trp Thr Val Ser Asn Lys Trp Glu Val
            100                 105                 110
Pro Ser Val Tyr Ser Gly Val Ile Leu Gly Ile Lys Asp Asn Leu Thr
        115                 120                 125
Arg Asp Leu Val Tyr Ile Leu Met Ala Lys Gly Leu His Cys Ser Thr
    130                 135                 140
Val Lys Asp Phe Ser His Ala Lys Gln Leu Phe Ala Ala Cys Leu Glu
145                 150                 155                 160
Leu Val Thr Glu Phe Ser Pro Lys Leu Arg Gln Val Met Leu Asn Glu
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Met Leu Leu Leu Asp Ile His Thr His Glu Ala Gly Thr Gly Gln Ala
            180                 185                 190
Gly Glu Arg Pro Pro Ser Asp Leu Ile Ser Arg Val Arg Gly Tyr Leu
        195                 200                 205
Glu Met Arg Leu Pro Asp Ile Pro Leu Arg Gln Val Ile Ala Glu Glu
    210                 215                 220
Cys Val Ala Phe Met Leu Asn Trp Arg Glu Asn Glu Tyr Leu Thr Leu
225                 230                 235                 240
Gln Val Pro Ala Phe Leu Leu Gln Ser Asn Pro Tyr Val Lys Leu Gly
                245                 250                 255
Gln Leu Leu Ala Ala Thr Cys Lys Glu Leu Pro Gly Pro Lys Glu Ser
            260                 265                 270
Arg Arg Thr Ala Lys Asp Leu Trp Glu Val Val Val Gln Ile Cys Ser
        275                 280                 285
Val Ser Ser Gln His Lys Arg Gly Asn Asp Gly Arg Val Ser Leu Ile
    290                 295                 300
Lys Gln Arg Glu Ser Thr Leu Gly Ile Met Tyr Arg Ser Glu Leu Leu
305                 310                 315                 320
Ser Phe Ile Lys Lys Leu Arg Glu Pro Leu Val Leu Thr Ile Ile Leu
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Ser Leu Phe Val Lys Leu His Asn Val Arg Glu Asp Ile Val Asn Asp
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            340                 345                 350
Ile Thr Ala Glu His Ile Ser Ile Trp Pro Ser Ser Ile Pro Asn Leu
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Gln Ser Val Asp Phe Glu Ala Val Ala Ile Thr Val Lys Glu Leu Val
    370                 375                 380
Arg Tyr Thr Leu Ser Ile Asn Pro Asn Asn His Ser Trp Leu Ile Ile
385                 390                 395                 400
Gln Ala Asp Ile Tyr Phe Ala Thr Asn Gln Tyr Ser Ala Ala Leu His
                405                 410                 415
Tyr Tyr Leu Gln Ala Gly Ala Val Cys Ser Asp Phe Phe Asn Lys Ala
            420                 425                 430
Val Pro Pro Asp Val Tyr Thr Asp Gln Val Ile Lys Arg Met Ile Lys
        435                 440                 445
Cys Cys Ser Leu Leu Asn Cys His Thr Gln Val Ala Ile Leu Cys Gln
    450                 455                 460
Phe Leu Arg Glu Ile Asp Tyr Lys Thr Ala Phe Lys Ser Leu Gln Glu
465                 470                 475                 480
Gln Asn Ser His Asp Ala Met Asp Ser Tyr Tyr Asp Tyr Ile Trp Asp
                485                 490                 495
Val Thr Ile Leu Glu Tyr Leu Thr Tyr Leu His His Lys Arg Gly Glu
            500                 505                 510
Thr Asp Lys Arg Gln Ile Ala Ile Lys Ala Ile Gly Gln Thr Glu Leu
        515                 520                 525
Asn Ala Ser Asn Pro Glu Glu Val Leu Gln Leu Ala Ala Gln Arg Arg
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<212> DNA
<213> Homo sapiens

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<222> (149)..(1342)

<400> 11579

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tgccttgctc tgcaaaatcg aggacattga taacgaagat tgggagaacc ctcagctctg 540
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<210> 11580
<211> 398
<212> PRT
<213> Homo sapiens

<400> 11580

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			20					25				30			
Thr	Val	Leu	Glu	Glu	Ile	Gly	Asn	Arg	Val	Thr	Thr	Arg	Ala	Ala	Gln
		35					40					45			
Val	Ala	Lys	Lys	Ala	Gln	Asn	Thr	Lys	Val	Pro	Val	Gln	Pro	Thr	Lys
	50					55					60				
Thr	Thr	Asn	Val	Asn	Lys	Gln	Leu	Lys	Pro	Thr	Ala	Ser	Val	Lys	Pro
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Val	Gln	Met	Glu	Lys	Leu	Ala	Pro	Lys	Gly	Pro	Ser	Pro	Thr	Pro	Glu
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Asp	Val	Ser	Met	Lys	Glu	Glu	Asn	Leu	Cys	Gln	Ala	Phe	Ser	Asp	Ala
			100					105					110		
Leu	Leu	Cys	Lys	Ile	Glu	Asp	Ile	Asp	Asn	Glu	Asp	Trp	Glu	Asn	Pro
		115					120					125			
Gln	Leu	Cys	Ser	Asp	Tyr	Val	Lys	Asp	Ile	Tyr	Gln	Tyr	Leu	Arg	Gln
	130					135					140				
Leu	Glu	Val	Leu	Gln	Ser	Ile	Asn	Pro	His	Phe	Leu	Asp	Gly	Arg	Asp
145					150					155					160
Ile	Asn	Gly	Arg	Met	Arg	Ala	Ile	Leu	Val	Asp	Trp	Leu	Val	Gln	Val
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His	Ser	Lys	Phe	Arg	Leu	Leu	Gln	Glu	Thr	Leu	Tyr	Met	Cys	Val	Gly

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    210                 215                 220
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225                 230                 235                 240
Tyr Thr Ser Ser Gln Ile Arg Glu Met Glu Thr Leu Ile Leu Lys Glu
                245                 250                 255
Leu Lys Phe Glu Leu Gly Arg Pro Leu Pro Leu His Phe Leu Arg Arg
            260                 265                 270
Ala Ser Lys Ala Gly Glu Val Asp Val Glu Gln His Thr Leu Ala Lys
        275                 280                 285
Tyr Leu Met Glu Leu Thr Leu Ile Asp Tyr Asp Met Val His Tyr His
    290                 295                 300
Pro Ser Lys Val Ala Ala Ala Ala Ser Cys Leu Ser Gln Lys Val Leu
305                 310                 315                 320
Gly Gln Gly Lys Trp Asn Leu Lys Gln Gln Tyr Tyr Thr Gly Tyr Thr
                325                 330                 335
Glu Asn Glu Val Leu Glu Val Met Gln His Met Ala Lys Asn Val Val
            340                 345                 350
Lys Val Asn Glu Asn Leu Thr Lys Phe Ile Ala Ile Lys Asn Lys Tyr
        355                 360                 365
Ala Ser Ser Lys Leu Leu Lys Ile Ser Met Ile Pro Gln Leu Asn Ser
    370                 375                 380
Lys Ala Val Lys Asp Leu Ala Ser Pro Leu Ile Gly Arg Ser
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<210> 11581
<211> 1205
<212> DNA
<213> Homo sapiens

<400> 11581

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<212> PRT
<213> Homo sapiens

<400> 11583

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			20					25				30			
Pro	Leu	Ser	Pro	Ala	Ser	Lys	Lys	Cys	Leu	Thr	His	Leu	Glu	Asp	Leu
		35					40					45			
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65					70					75					80
Asn	Thr	Gly	Leu	Thr	Thr	Lys	Lys	Phe	Tyr	Gly	Asn	Asn	Val	Glu	Lys
				85					90					95	
Val	Pro	Ile	Asp	Ile	Ile	Val	Asn	Cys	Asp	Asp	Ser	Lys	Arg	Thr	Tyr
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Arg	Arg	Glu	Ser	Ile	Ser	Pro	Gln	Pro	Ala	Asp	Ser	Ala	Cys	Ser	Ser
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Val Glu Lys Leu Ile Val Tyr Pro Pro Pro Pro Ala Lys Gly Gly Ile
465                 470                 475                 480
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<213> Homo sapiens

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<211> 138
<212> PRT
<213> Homo sapiens

<400> 11585
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35 40 45
Leu Lys Asn Lys Ile Gln Ile Leu Ala Ser Glu Val Glu Glu Glu Glu
50 55 60
Glu Arg Val Lys Gln Met His Gln Ile Asn Ser Ser Gly Val Leu Ser
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85 90 95
Glu Ile Leu Ala Leu Ile Pro Asn Gln Asn Ala Leu Leu Lys Asp Leu

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<211> 2417
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (208)..(717)

<400> 11586

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<211> 170
<212> PRT
<213> Homo sapiens

<400> 11587
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Ser His His Phe Met Pro Gly Ser Pro Thr Lys Thr Val Tyr Lys Lys
35 40 45
Pro Gln Glu Lys Lys Gly Cys Lys Cys Gly Arg Ala Thr Gln Asn Pro
50 55 60
Ser Val Leu Thr Cys Arg Gly Gln Arg Cys Pro Cys Tyr Ser Asn Arg
65 70 75 80
Lys Ala Cys Leu Asp Cys Ile Cys Arg Gly Cys Gln Asn Ser Tyr Met
85 90 95
Ala Asn Gly Glu Lys Lys Leu Glu Ala Phe Ala Val Pro Glu Lys Ala
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Leu Glu Gln Thr Arg Leu Thr Leu Gly Ile Asn Val Thr Ser Ile Ala
115 120 125
Val Arg Asn Ala Ser Thr Ser Thr Ser Val Ile Asn Val Thr Gly Ser
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Pro Val Thr Thr Phe Leu Ala Ala Ser Thr His Asp Asp Lys Ser Leu
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Asp Glu Ala Ile Asp Met Arg Phe Asp Cys
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<211> 2017
<212> DNA
<213> Homo sapiens

<220>

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<221> CDS
<222> (12)..(1409)

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<211> 466
<212> PRT
<213> Homo sapiens

<400> 11589
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Trp Thr Glu Gly Arg Ile Pro Arg Pro Arg Phe Leu Pro Glu Lys Ala
        50                  55                  60
Lys Ser His Gln Thr Trp Lys Ala Gly Asp Arg Val Ala Asn Pro Glu
65                  70                  75                  80
Gln Gly Leu Trp Asn His Phe Pro Cys Glu Glu Ser Glu Gly Glu Ala
                85                  90                  95
Thr Trp Glu Glu Met Val Leu Lys Lys Ser Gly Glu Ser Ser Ala Asn
            100                 105                 110
Gln Gly Ser Leu Cys Arg Asp His Ser Ser Trp Leu Gln Met Lys Gln
        115                 120                 125
Asn Arg Lys Pro Ser Gln Glu Lys Thr Arg Asp Thr Thr Arg Met Glu
    130                 135                 140
Asn Pro Glu Ala Thr Asp Gln Arg Leu Pro His Ser Gln Pro Gln Leu
145                 150                 155                 160
Gln Glu Leu Gln Tyr His Arg Ser His Leu Ala Met Glu Leu Leu Trp
                165                 170                 175
Leu Gln Gln Ala Ile Asn Ser Arg Lys Glu Tyr Leu Leu Leu Lys Gln
            180                 185                 190
Thr Leu Arg Ser Pro Glu Ala Gly Ser Ile Arg Glu Glu Pro Arg Val
        195                 200                 205
Phe Leu Glu His Gly Glu Gln Ala Cys Glu Arg Asp Gln Ser Gln Pro
    210                 215                 220
Ser Ala Pro Leu Glu Asp Gln Ser Tyr Arg Asp Arg Thr Thr Gly Glu
225                 230                 235                 240
Leu Glu Gln Glu Asp Asp Ser Cys His Arg Val Lys Ser Pro His Arg
                245                 250                 255
Ser Pro Gly Ser Leu Ala Thr Thr Gln Lys Asn Ile Ala Gly Ala Lys
            260                 265                 270
Cys Arg Glu Pro Cys Tyr Ser Lys Ser Gly Pro Pro Ser Ser Ile Pro
        275                 280                 285
Ser Asn Ser Gln Ala Leu Gly Asp Arg Leu Thr Lys Gly Pro Asp Asp
    290                 295                 300
Gly Arg Gln Thr Phe Gly Gly Thr Cys Leu Leu Gln Met Lys Ile Leu
305                 310                 315                 320
Glu Asp Gln Thr Pro Arg Gly Leu Lys Pro Arg Asn His Cys Pro Arg
                325                 330                 335
Lys Ser Arg Thr Gln Leu Ser Ala Leu Tyr Glu Asp Ser Asn Ile Lys
            340                 345                 350
Glu Met Ser Pro Arg Lys Leu Asp His Lys Glu Pro Asp Cys Arg Thr
        355                 360                 365
Val Arg Thr Gln Glu Leu Gly Leu Ser Glu Asp His Ile Ile Trp Asp
    370                 375                 380
Gly Thr Leu Gly Gly Pro Glu His Ser Val Leu Asp Leu Trp Arg Thr
385                 390                 395                 400
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Lys Pro Pro Lys Gly Gln Ala Pro Thr Asp Arg Ser Ser Arg Asp Gly
405 410 415
Thr Ser Asn Glu Pro Ser His Glu Gly Gln Lys Lys Gln Arg Thr Ile
420 425 430
Pro Trp Arg Ser Lys Ser Pro Glu Ile Leu Ser Ser Thr Lys Ala Gly
435 440 445
Cys Thr Gly Glu Glu Gln Trp Arg Gly Arg Pro Trp Lys Thr Glu Pro
450 455 460
Pro Gly
465

<210> 11590
<211> 1087
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (40)..(627)

<400> 11590
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tctcggcttc cagctcgcgg gttcagggaa gtggtggaga cccaagaagg gaagacaact 180
ataattgaag gccgtatcac agcgactccc aaggagagtc caaatcctcc taacccctct 240
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ctgcttagcc agttcatccg gcctcatgga ggcatgctgc cccgaaagat cacaggccta 360
tgccaggaag aacaccgcaa gatcgaggag tgtgtgaaga tggcccaccg agcaggtcta 420
ttaccaaatc acaggcctcg gcttcctgaa ggagttgttc cgaagagcaa accccaactc 480
aaccggtacc tgacgcgctg ggctcctggc tccgtcaagc ccatctacaa aaaaggcccc 540
cgctggaaca gggtgcgcat gcccgtgggg tcaccccttc tgagggacaa tgtctgctac 600
tcaagaacac cttggaagct gtatcactga cagagagcag tgcttccaga gttcctcctg 660
cacctgtgct ggggagtagg aggcccactc acaagccctt ggccacaact atactcctgt 720
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tgcccaacgc agtgtcataa actgggttca tgggcttacc cattgggtgt gcgctcactg 960
cttgggaagt gcaggggtc ctgggcacat tgccagctgg gtgctgagca ttgagtcact 1020
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cttcatg 1087

<210> 11591
<211> 196
<212> PRT
<213> Homo sapiens

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<400> 11591
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Gly Leu Leu Ala Gly Pro Ala Ala Thr Ser Trp Ser Arg Leu Pro Ala
            20   25   30
Arg Gly Phe Arg Glu Val Val Glu Thr Gln Glu Gly Lys Thr Thr Ile
        35   40   45
Ile Glu Gly Arg Ile Thr Ala Thr Pro Lys Glu Ser Pro Asn Pro Pro
    50   55   60
Asn Pro Ser Gly Gln Cys Pro Ile Cys Arg Trp Asn Leu Lys His Lys
65   70   75   80
Tyr Asn Tyr Asp Asp Val Leu Leu Leu Ser Gln Phe Ile Arg Pro His
                85   90   95
Gly Gly Met Leu Pro Arg Lys Ile Thr Gly Leu Cys Gln Glu Glu His
            100   105   110
Arg Lys Ile Glu Glu Cys Val Lys Met Ala His Arg Ala Gly Leu Leu
        115   120   125
Pro Asn His Arg Pro Arg Leu Pro Glu Gly Val Val Pro Lys Ser Lys
    130   135   140
Pro Gln Leu Asn Arg Tyr Leu Thr Arg Trp Ala Pro Gly Ser Val Lys
145   150   155   160
Pro Ile Tyr Lys Lys Gly Pro Arg Trp Asn Arg Val Arg Met Pro Val
                165   170   175
Gly Ser Pro Leu Leu Arg Asp Asn Val Cys Tyr Ser Arg Thr Pro Trp
            180   185   190
Lys Leu Tyr His
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<210> 11592
<211> 2414
<212> DNA
<213> Homo sapiens

<220>
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<222> (38)..(2215)

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tgccctacgg attcagttct tccttcagat ggctgtgtat cggagaagat ttgttcagca 360
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aagtaaagga tttatacaga aacggaagtt tcaggaaatt aaaaatagca ccataaaaat 600
tcaggctatg tggaggagat atagagccaa gaaatattta tgtaaagtga aagctgcctg 660
caagattcaa gcctggtata gatgttggag agcacacaaa gaatatctag ctgtattaaa 720
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tgtgagagca tcagcaatta tcattcagag aaaatggaga gctatacttc ctgcaaagat 840
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aaagtgattt ttgctctctg tgtacaactt ttaaaatctg actttgtttt aaaaaaacat 2340
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<210> 11593
<211> 726
<212> PRT
<213> Homo sapiens

<400> 11593
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20 25 30
Tyr Glu Ala Val Gln Ser Glu Gly Val Met Ile Gln Glu Trp Tyr Lys
35 40 45
Ala Ser Gly Leu Ala Cys Ser Gln Glu Ala Glu Tyr His Ser Gln Ser
50 55 60

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Lys Leu Glu Thr Gln Lys Cys Ala Ala Leu Arg Ile Gln Phe Phe Leu
                85                  90                  95
Gln Met Ala Val Tyr Arg Arg Arg Phe Val Gln Gln Lys Arg Ala Ala
            100                 105                 110
Ile Thr Leu Gln His Tyr Phe Arg Thr Trp Gln Thr Arg Lys Gln Phe
        115                 120                 125
Leu Leu Tyr Arg Lys Ala Ala Val Val Leu Gln Asn His Tyr Arg Ala
    130                 135                 140
Phe Leu Ser Ala Lys His Gln Arg Gln Val Tyr Leu Gln Ile Arg Ser
145                 150                 155                 160
Ser Val Ile Ile Ile Gln Ala Arg Ser Lys Gly Phe Ile Gln Lys Arg
                165                 170                 175
Lys Phe Gln Glu Ile Lys Asn Ser Thr Ile Lys Ile Gln Ala Met Trp
            180                 185                 190
Arg Arg Tyr Arg Ala Lys Lys Tyr Leu Cys Lys Val Lys Ala Ala Cys
        195                 200                 205
Lys Ile Gln Ala Trp Tyr Arg Cys Trp Arg Ala His Lys Glu Tyr Leu
    210                 215                 220
Ala Val Leu Lys Ala Val Lys Ile Ile Gln Gly Cys Phe Tyr Thr Lys
225                 230                 235                 240
Leu Glu Arg Thr Arg Phe Leu Asn Val Arg Ala Ser Ala Ile Ile Ile
                245                 250                 255
Gln Arg Lys Trp Arg Ala Ile Leu Pro Ala Lys Ile Ala His Glu His
            260                 265                 270
Phe Leu Met Ile Lys Arg His Arg Ala Ala Cys Leu Ile Gln Ala His
        275                 280                 285
Tyr Arg Gly Tyr Lys Gly Arg Gln Val Ser Leu Arg Gln Lys Ser Ala
    290                 295                 300
Ala Leu Ile Ile Gln Lys Tyr Ile Arg Ala Arg Glu Ala Gly Lys His
305                 310                 315                 320
Glu Arg Ile Lys Tyr Ile Glu Phe Lys Lys Ser Thr Val Ile Leu Gln
                325                 330                 335
Ala Leu Val Arg Gly Trp Leu Val Arg Lys Arg Phe Leu Glu Gln Arg
            340                 345                 350
Ala Lys Ile Arg Leu Leu His Phe Thr Ala Ala Ala Tyr Tyr His Leu
        355                 360                 365
Asn Ala Val Arg Ile Gln Arg Ala Tyr Lys Leu Tyr Leu Ala Val Lys
    370                 375                 380
Asn Ala Asn Lys Gln Val Asn Ser Val Ile Cys Ile Gln Arg Trp Phe
385                 390                 395                 400
Arg Ala Arg Leu Gln Glu Lys Arg Phe Ile Gln Lys Tyr His Ser Ile
                405                 410                 415
Lys Lys Ile Glu His Glu Gly Gln Glu Cys Leu Ser Gln Arg Asn Arg
            420                 425                 430
Ala Ala Ser Val Ile Gln Lys Ala Val Arg His Phe Leu Leu Arg Lys
        435                 440                 445
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Lys Gln Glu Lys Phe Thr Ser Gly Ile Ile Lys Ile Gln Ala Leu Trp
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Arg Gly Tyr Ser Trp Arg Lys Lys Asn Asp Cys Thr Lys Ile Lys Ala
465                 470                 475                 480
Ile Arg Leu Ser Leu Gln Val Val Asn Arg Glu Ile Arg Glu Glu Asn
                485                 490                 495
Lys Leu Tyr Lys Arg Thr Ala Leu Ala Leu His Tyr Leu Leu Thr Tyr
            500                 505                 510
Lys His Leu Ser Ala Ile Leu Glu Ala Leu Lys His Leu Glu Val Val
        515                 520                 525
Thr Arg Leu Ser Pro Leu Cys Cys Glu Asn Met Ala Gln Ser Gly Ala
    530                 535                 540
Ile Ser Lys Ile Phe Val Leu Ile Arg Ser Cys Asn Arg Ser Ile Pro
545                 550                 555                 560
Cys Met Glu Val Ile Arg Tyr Ala Val Gln Val Leu Leu Asn Val Ser
                565                 570                 575
Lys Tyr Glu Lys Thr Thr Ser Ala Val Tyr Asp Val Glu Asn Cys Ile
            580                 585                 590
Asp Ile Leu Leu Glu Leu Leu Gln Ile Tyr Arg Glu Lys Pro Gly Asn
        595                 600                 605
Lys Val Ala Asp Lys Gly Gly Ser Ile Phe Thr Lys Thr Cys Cys Leu
    610                 615                 620
Leu Ala Ile Leu Leu Lys Thr Thr Asn Arg Ala Ser Asp Val Arg Ser
625                 630                 635                 640
Arg Ser Lys Val Val Asp Arg Ile Tyr Ser Leu Tyr Lys Leu Thr Ala
                645                 650                 655
His Lys His Lys Met Asn Thr Glu Arg Ile Leu Tyr Lys Gln Lys Lys
            660                 665                 670
Asn Ser Ser Ile Ser Ile Pro Phe Ile Pro Glu Thr Pro Val Arg Thr
        675                 680                 685
Arg Ile Val Ser Arg Leu Lys Pro Asp Trp Val Leu Arg Arg Asp Asn
    690                 695                 700
Met Glu Glu Ile Thr Asn Pro Leu Gln Ala Ile Gln Met Val Met Asp
705                 710                 715                 720
Thr Leu Gly Ile Pro Tyr
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<210> 11594
<211> 2146
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (70)..(1668)

<400> 11594

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agtgcccgac agagacctcc taaaaggaaa tacctatcaa gtggaagaaa atctgtattt 180
caaaaacttt atgacttgta tattgaagaa tgtgaaaaag aacctgaagt taagaaatta 240
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<210> 11595
<211> 533
<212> PRT
<213> Homo sapiens

<400> 11595
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20 25 30

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Glu Lys Glu Pro Glu Val Lys Lys Leu Arg Arg Asn Val Asn Leu Leu
     50                  55                  60
Glu Lys Leu Val Met Gln Glu Thr Leu Ser Cys Leu Val Val Asn Leu
 65                  70                  75                  80
Tyr Pro Gly Asn Glu Gly Tyr Ser Leu Met Leu Arg Gly Lys Asn Gly
                 85                  90                  95
Ser Asp Ser Glu Thr Ile Arg Leu Pro Tyr Glu Glu Gly Glu Leu Leu
            100                 105                 110
Glu Tyr Leu Asp Ala Glu Glu Leu Pro Pro Ile Leu Val Asp Leu Leu
        115                 120                 125
Glu Lys Ser Gln Val Asn Ile Phe His Cys Gly Cys Val Ile Ala Glu
    130                 135                 140
Ile Arg Asp Tyr Arg Gln Ser Ser Asn Met Lys Ser Pro Gly Tyr Gln
145                 150                 155                 160
Ser Arg His Ile Leu Leu Arg Pro Thr Met Gln Thr Leu Ile Cys Asp
                165                 170                 175
Val His Ser Ile Thr Ser Asp Asn His Lys Trp Thr Gln Glu Asp Lys
            180                 185                 190
Leu Leu Leu Glu Ser Gln Leu Ile Leu Ala Thr Ala Glu Pro Leu Cys
        195                 200                 205
Leu Asp Pro Ser Ile Ala Val Thr Cys Thr Ala Asn Arg Leu Leu Tyr
    210                 215                 220
Asn Lys Gln Lys Met Asn Thr Arg Pro Met Lys Arg Cys Phe Lys Arg
225                 230                 235                 240
Tyr Ser Arg Ser Ser Leu Asn Arg Gln Gln Asp Leu Ser His Cys Pro
                245                 250                 255
Pro Pro Pro Gln Leu Arg Leu Leu Asp Phe Leu Gln Lys Arg Lys Glu
            260                 265                 270
Arg Lys Ala Gly Gln His Tyr Asp Leu Lys Ile Ser Lys Ala Gly Asn
        275                 280                 285
Cys Val Asp Met Trp Lys Arg Ser Pro Cys Asn Leu Ala Ile Pro Ser
    290                 295                 300
Glu Val Asp Val Glu Lys Tyr Ala Lys Val Glu Lys Ser Ile Lys Ser
305                 310                 315                 320
Asp Asp Ser Gln Pro Thr Val Trp Pro Ala His Asp Val Lys Asp Asp
                325                 330                 335
Tyr Val Phe Glu Cys Glu Ala Gly Thr Gln Tyr Gln Lys Thr Lys Leu
            340                 345                 350
Thr Ile Leu Gln Ser Leu Gly Asp Pro Leu Tyr Tyr Gly Lys Ile Gln
        355                 360                 365
Pro Cys Lys Ala Asp Glu Glu Ser Asp Ser Gln Met Ser Pro Ser His
    370                 375                 380
Ser Ser Thr Asp Asp His Ser Asn Trp Phe Ile Ile Gly Ser Lys Thr
385                 390                 395                 400
Asp Ala Glu Arg Val Val Asn Gln Tyr Gln Glu Leu Val Gln Asn Glu
                405                 410                 415
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435 440 445
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450 455 460
Pro Ile Lys Leu Pro Ser Ser Ser Gly Asn Ser Ser Ser Gly Asn Tyr
465 470 475 480
Phe Thr Pro Gln Gln Thr Ser Ser Phe Leu Lys Ser Pro Thr Pro Pro
485 490 495
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515 520 525
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<211> 2370
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (261)..(1271)

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<211> 337
<212> PRT
<213> Homo sapiens

<400> 11597
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35 40 45
Leu Asp Glu Met Lys Ser Ala Met Arg Lys Gly His Asn Leu Leu Lys
50 55 60
Lys Lys Glu Glu Lys Leu Asn Gln Leu Glu Ser Ser Leu Trp Glu Glu
65 70 75 80
Ala Ser Asp Glu Gly Thr Leu Gly Gly Ser Pro Thr Lys Lys Ala Val
85 90 95
Thr Phe Asp Leu Ser Asp Met Asp Ser Leu Ser Ser Glu Ser Ser Glu
100 105 110
Ser Phe Ser Pro Pro His Arg Glu Trp Trp Arg Gln Gln Arg Ile Asp
115 120 125
Ser Thr Pro Ser Leu Thr Ser Arg Lys Ile His Gly Leu Ser His Ser
130 135 140
Leu Arg Gln Ile Ser Ser Gln Leu Ser Ser Val Leu Ser Ile Leu Asp
145 150 155 160

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Ser Leu Asn Pro Gln Ser Pro Pro Pro Leu Leu Ala Ser Met Pro Ala
                165                 170                 175
Gln Leu Pro Pro Arg Asp Pro Lys Ser Thr Pro Thr Pro Thr Tyr Tyr
            180                 185                 190
Gly Ser Leu Ala Arg Phe Ser Ala Leu Ser Ser Ala Thr Pro Thr Ser
        195                 200                 205
Thr Gln Trp Ala Trp Asp Ser Gly Gln Gly Pro Arg Leu Pro Ser Ser
    210                 215                 220
Val Ala Gln Thr Val Asp Asp Phe Leu Leu Glu Lys Trp Arg Lys Tyr
225                 230                 235                 240
Phe Pro Ser Gly Ile Pro Leu Leu Ser Asn Ser Pro Thr Pro Leu Glu
                245                 250                 255
Ser Arg Leu Gly Tyr Met Ser Ala Ser Glu Gln Leu Arg Leu Leu Gln
            260                 265                 270
His Ser His Ser Gln Val Pro Glu Ala Gly Ser Thr Thr Phe Gln Gly
        275                 280                 285
Ile Ile Glu Ala Asn Arg Arg Trp Leu Glu Arg Val Lys Asn Asp Pro
    290                 295                 300
Arg Leu Pro Leu Phe Ser Ser Thr Pro Lys Pro Lys Ala Thr Leu Ser
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Leu Leu Gln Leu Gly Leu Asp Glu His Asn Arg Val Lys Val Tyr Arg
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<211> 2130
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (186)..(1262)

<400> 11598

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gaggaaatgg tgaatatgca tggtattatg aaggaagaaa tgggtggtgg cagtacgatg 540
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taattgctgg ctttctgtat gtcgctgatc ttgaaaacat ggttcaatat aggagaaatg 660
aacatggacg tcgcaggaag attaagcgag atataataga tataccaaag aagggagtag 720
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<210> 11599
<211> 359
<212> PRT
<213> Homo sapiens

<400> 11599

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			20					25				30			
Thr	Val	Pro	Glu	Cys	Ala	Ile	Cys	Leu	Gln	Thr	Cys	Val	His	Pro	Val
		35					40					45			
Ser	Leu	Pro	Cys	Lys	His	Val	Phe	Cys	Tyr	Leu	Cys	Val	Lys	Gly	Ala
	50					55					60				
Ser	Trp	Leu	Gly	Lys	Arg	Cys	Ala	Leu	Cys	Arg	Gln	Glu	Ile	Pro	Glu
65					70					75					80
Asp	Phe	Leu	Asp	Lys	Pro	Thr	Leu	Leu	Ser	Pro	Glu	Glu	Leu	Lys	Ala
				85					90					95	
Ala	Ser	Arg	Gly	Asn	Gly	Glu	Tyr	Ala	Trp	Tyr	Tyr	Glu	Gly	Arg	Asn
			100					105				110			
Gly	Trp	Trp	Gln	Tyr	Asp	Glu	Arg	Thr	Ser	Arg	Glu	Leu	Glu	Asp	Ala
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Gly Arg Arg Arg Lys Ile Lys Arg Asp Ile Ile Asp Ile Pro Lys Lys
                165                 170                 175
Gly Val Ala Gly Leu Arg Leu Asp Cys Asp Ala Asn Thr Val Asn Leu
            180                 185                 190
Ala Arg Glu Ser Ser Ala Asp Gly Ala Asp Ser Val Ser Ala Gln Ser
        195                 200                 205
Gly Ala Ser Val Gln Pro Leu Val Ser Ser Val Arg Pro Leu Thr Ser
    210                 215                 220
Val Asp Gly Gln Leu Thr Ser Pro Ala Thr Pro Ser Pro Asp Ala Ser
225                 230                 235                 240
Thr Ser Leu Glu Asp Ser Phe Ala His Leu Gln Leu Ser Gly Asp Asn
                245                 250                 255
Thr Ala Glu Arg Ser His Arg Gly Glu Gly Glu Glu Asp His Glu Ser
            260                 265                 270
Pro Ser Ser Gly Arg Val Pro Ala Pro Asp Thr Ser Ile Glu Glu Thr
        275                 280                 285
Glu Ser Asp Ala Ser Ser Asp Ser Glu Asp Val Ser Ala Val Val Ala
    290                 295                 300
Gln His Ser Leu Thr Gln Gln Arg Leu Leu Val Ser Asn Ala Asn Gln
305                 310                 315                 320
Thr Val Pro Asp Arg Ser Asp Arg Ser Gly Thr Asp Arg Ser Val Ala
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Gly Gly Gly Thr Val Ser Val Ser Val Arg Ser Arg Arg Pro Asp Gly
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<212> DNA
<213> Homo sapiens

<220>
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gtatatgtga aaccatatag aaatgaggat atgtcagcat atgtgaagaa aatccagttt 240
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gcaatgatgc aacaattatt gacaacatct cgtcagctaa cattaggagc ctataagcat 540
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aaaacaagct ttgagattgc agagcttaag gagagattaa aagcaagtcg tgaaactata 660
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<210> 11601
<211> 227
<212> PRT
<213> Homo sapiens

<400> 11601

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			20					25					30		
Tyr	Phe	Gly	Lys	Lys	Arg	Glu	Glu	Asp	Gly	His	Thr	His	Gln	Trp	Thr
		35					40					45			
Val	Tyr	Val	Lys	Pro	Tyr	Arg	Asn	Glu	Asp	Met	Ser	Ala	Tyr	Val	Lys
	50					55					60				
Lys	Ile	Gln	Phe	Lys	Leu	His	Glu	Ser	Tyr	Gly	Asn	Pro	Leu	Arg	Val
65					70					75					80
Val	Thr	Lys	Pro	Pro	Tyr	Glu	Ile	Thr	Glu	Thr	Gly	Trp	Gly	Glu	Phe
				85					90					95	
Glu	Ile	Ile	Ile	Lys	Ile	Phe	Phe	Ile	Asp	Pro	Asn	Glu	Arg	Pro	Val
			100					105					110		
Thr	Leu	Tyr	His	Leu	Leu	Lys	Leu	Phe	Gln	Ser	Asp	Thr	Asn	Ala	Met
		115					120					125			
Leu	Gly	Lys	Lys	Thr	Val	Val	Ser	Glu	Phe	Tyr	Asp	Glu	Met	Ile	Phe
	130					135					140				
Gln	Asp	Pro	Thr	Ala	Met	Met	Gln	Gln	Leu	Leu	Thr	Thr	Ser	Arg	Gln
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Leu	Thr	Leu	Gly	Ala	Tyr	Lys	His	Glu	Thr	Glu	Phe	Ala	Glu	Leu	Glu
				165					170					175	
Val	Lys	Thr	Arg	Glu	Lys	Leu	Glu	Ala	Ala	Lys	Lys	Lys	Thr	Ser	Phe
			180					185					190		
Glu	Ile	Ala	Glu	Leu	Lys	Glu	Arg	Leu	Lys	Ala	Ser	Arg	Glu	Thr	Ile
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Lys Asp Ile
225

<210> 11602
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<212> DNA
<213> Homo sapiens

<220>
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<212> PRT
<213> Homo sapiens

<400> 11603

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			20					25					30		
Ser	Asp	Ser	Glu	Ser	Arg	Ala	Glu	Ser	Ala	Pro	Leu	Pro	Val	Ser	Ala
		35					40					45			
Asp	Asp	Thr	Pro	Glu	Val	Leu	Asn	Arg	Ala	Leu	Ser	Asn	Leu	Ser	Ser
	50					55					60				
Arg	Trp	Lys	Asn	Trp	Trp	Val	Arg	Gly	Ile	Leu	Thr	Leu	Ala	Met	Ile
65					70					75					80
Ala	Phe	Phe	Phe	Ile	Ile	Ile	Tyr	Leu	Gly	Pro	Met	Val	Leu	Met	Ile
				85					90					95	
Ile	Val	Met	Cys	Val	Gln	Ile	Lys	Cys	Phe	His	Glu	Ile	Ile	Thr	Ile
			100					105					110		
Gly	Tyr	Asn	Val	Tyr	His	Ser	Tyr	Asp	Leu	Pro	Trp	Phe	Arg	Thr	Leu
		115					120					125			
Ser	Trp	Tyr	Phe	Leu	Leu	Cys	Val	Asn	Tyr	Phe	Phe	Tyr	Gly	Glu	Thr
	130					135					140				
Val	Thr	Asp	Tyr	Phe	Phe	Thr	Leu	Val	Gln	Arg	Glu	Glu	Pro	Leu	Arg
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Ile	Leu	Ser	Lys	Tyr	His	Arg	Phe	Ile	Ser	Phe	Thr	Leu	Tyr	Leu	Ile
				165					170					175	
Gly	Phe	Cys	Met	Phe	Val	Leu	Ser	Leu	Ala	Lys	Lys	His	Tyr	Arg	Leu
			180					185					190		
Gln	Phe	Tyr	Met	Phe	Gly	Trp	Thr	His	Val	Thr	Leu	Leu	Ile	Val	Val
		195					200					205			
Thr	Gln	Ser	His	Leu	Val	Ile	His	Asn	Leu	Phe	Glu	Gly	Met	Ile	Trp
	210					215					220				
Phe	Ile	Val	Pro	Ile	Ser	Cys	Val	Ile	Cys	Asn	Asp	Ile	Met	Ala	Tyr
225					230					235					240
Met	Phe	Gly	Phe	Phe	Phe	Gly	Arg	Thr	Pro	Leu	Ile	Lys	Leu	Ser	Pro
				245					250					255	

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        275                 280                 285
Cys Pro Val Glu Tyr Asn Asn Asp Thr Asn Ser Phe Thr Val Asp Cys
    290                 295                 300
Glu Pro Ser Asp Leu Phe Arg Leu Gln Glu Tyr Asn Ile Pro Gly Val
305                 310                 315                 320
Ile Gln Ser Val Ile Gly Trp Lys Thr Val Arg Met Tyr Pro Phe Gln
                325                 330                 335
Ile His Ser Ile Ala Leu Ser Thr Phe Ala Ser Leu Ile Gly Pro Phe
            340                 345                 350
Gly Gly Phe Phe Ala Ser Gly Phe Lys Arg Ala Phe Lys Ile Lys Asp
        355                 360                 365
Phe Ala Asn Thr Ile Pro Gly His Gly Gly Ile Met Asp Arg Phe Asp
    370                 375                 380
Cys Gln Tyr Leu Met Ala Thr Phe Val Asn Val Tyr Ile Ala Ser Phe
385                 390                 395                 400
Ile Arg Gly Pro Asn Pro Ser Lys Leu Ile Gln Gln Phe Leu Thr Leu
                405                 410                 415
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Ile Asp Lys Gly Met Leu Thr Ser Thr Thr Glu Asp Glu
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<212> DNA
<213> Homo sapiens

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<222> (146)..(886)

<400> 11604

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tggagtgctg gagtgacttg tgaatttctg aatattttcc cttcatctaa cattgattga 1140
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<211> 247
<212> PRT
<213> Homo sapiens

<400> 11605
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Leu Phe Arg Ala Thr Gln Tyr Thr Cys Met Leu Leu Arg Tyr Leu Leu
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Glu Pro Lys Ala Gly Lys Glu Lys Val Val Met Lys Leu Lys Lys Leu
35 40 45
Glu Ser Ser Val Ser Thr Gly Arg Lys Trp Phe Arg Leu Gly Asn Val
50 55 60
Val His Ala Ile Gln Ala Thr Glu Gln Ser Ile His Ala Thr Asp Leu
65 70 75 80
Val Pro Arg Leu Cys Leu Thr Leu Ala Asn Leu Asn Arg Val Ile Tyr
85 90 95
Phe Ile Cys Asp Thr Ile Leu Trp Val Arg Ser Val Gly Leu Thr Ser
100 105 110
Gly Ile Asn Lys Glu Lys Trp Arg Thr Arg Ala Ala His His Tyr Tyr
115 120 125
Tyr Ser Leu Leu Leu Ser Leu Val Arg Asp Leu Tyr Glu Ile Ser Leu
130 135 140
Gln Met Lys Arg Val Thr Cys Asp Arg Ala Lys Lys Glu Lys Ser Ala
145 150 155 160
Ser Gln Asp Pro Leu Trp Phe Ser Val Ala Glu Glu Glu Thr Glu Trp
165 170 175
Leu Gln Ser Phe Leu Leu Leu Leu Phe Arg Ser Leu Lys Gln His Pro
180 185 190
Pro Leu Leu Leu Asp Thr Val Lys Asn Leu Cys Asp Ile Leu Asn Pro
195 200 205
Leu Asp Gln Leu Gly Ile Tyr Lys Ser Asn Pro Gly Ile Ile Gly Leu
210 215 220
Gly Gly Leu Val Ser Ser Ile Ala Gly Met Ile Thr Val Ala Tyr Pro
225 230 235 240
Gln Met Lys Leu Lys Thr Arg

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<210> 11606
<211> 1128
<212> DNA
<213> Homo sapiens

<220>
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<222> (95)..(1018)

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cgtgggcacc acggccacac tgtacttccg ggacctgggg gcccagatca gctgggtgac 360
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cgcctgcatc tgtcactcat tccactacat caagcgcctg ctggagacgc tcttcgtgca 540
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gttctccctg gtgggcttca cccagatgac catctgggcc aagggcaagc accgcagcta 960
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<210> 11607
<211> 308
<212> PRT
<213> Homo sapiens

<400> 11607
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20 25 30
Lys Asn Leu Phe Thr Lys Thr His Pro Gln Trp Tyr Pro Ala Arg Gln
35 40 45
Ser Leu Arg Leu Asp Pro Lys Gly Lys Ser Leu Lys Asp Glu Asp Val
50 55 60

Leu Gln Lys Leu Pro Val Gly Thr Thr Ala Thr Leu Tyr Phe Arg Asp
65 70 75 80
Leu Gly Ala Gln Ile Ser Trp Val Thr Val Phe Leu Thr Glu Tyr Ala
85 90 95
Gly Pro Leu Phe Ile Tyr Leu Leu Phe Tyr Phe Arg Val Pro Phe Ile
100 105 110
Tyr Gly Arg Lys Tyr Asp Phe Thr Ser Ser Arg His Thr Val Val His
115 120 125
Leu Ala Cys Ile Cys His Ser Phe His Tyr Ile Lys Arg Leu Leu Glu
130 135 140
Thr Leu Phe Val His Arg Phe Ser His Gly Thr Met Pro Leu Arg Asn
145 150 155 160
Ile Phe Lys Asn Cys Thr Tyr Tyr Trp Gly Phe Ala Ala Trp Met Ala
165 170 175
Tyr Tyr Ile Asn His Pro Leu Tyr Thr Pro Pro Thr Tyr Gly Ala Gln
180 185 190
Gln Val Lys Leu Ala Leu Ala Ile Phe Val Ile Cys Gln Leu Gly Asn
195 200 205
Phe Ser Ile His Met Ala Leu Arg Asp Leu Arg Pro Ala Gly Ser Lys
210 215 220
Thr Arg Lys Ile Pro Tyr Pro Thr Lys Asn Pro Phe Thr Trp Leu Phe
225 230 235 240
Leu Leu Val Ser Cys Pro Asn Tyr Thr Tyr Glu Val Gly Ser Trp Ile
245 250 255
Gly Phe Ala Ile Met Thr Gln Cys Leu Pro Val Ala Leu Phe Ser Leu
260 265 270
Val Gly Phe Thr Gln Met Thr Ile Trp Ala Lys Gly Lys His Arg Ser
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Tyr Leu Lys Glu Phe Arg Asp Tyr Pro Pro Leu Arg Met Pro Ile Ile
290 295 300
Pro Phe Leu Leu
305

<210> 11608
<211> 2213
<212> DNA
<213> Homo sapiens

<400> 11608
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aaattatggc aattttattt caaactaaag tttgaacacc ggaaagtcat tactcagtga 240
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atactgcgct gccatcatgg tgactgtcat ggttctacag aaatgccctc catgtgtccc 360
tctaatgttg catgtttcag tgggttggaa gttttgtata tttattgtat taacacagag 420
tgtcataaaa taaaatgctg tttactggat gtttgtttgt ataattttga acactataat 480

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0058270 0946290

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<210> 11609
<211> 2193
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (26)..(2191)

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ctctgttagc ggctcaggtc cgcagtggag gccacatcaa ctcggcgcct tgggaaccgc 180
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aaagaggaca tgttggcatg gtcatgcagg aggaggactc cacacagacc caaaagaagg 360
gttaaaagat gttgatactc ggaaaatcat aaaagcaatg ctttcttatg tgtggcccaa 420

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<210> 11610
<211> 722
<212> PRT
<213> Homo sapiens

<400> 11610
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20 25 30
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35 40 45
Leu Gly Thr Ala Arg Ala Tyr Gln Gln Ile Pro Glu Ser Leu Lys Ser
50 55 60
Ile Thr Trp Gln Arg Leu Gly Lys Gly Asn Ser Gly Gln Phe Leu Asp
65 70 75 80

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Trp His Gly His Ala Gly Gly Gly Leu His Thr Asp Pro Lys Glu Gly
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Leu Lys Asp Val Asp Thr Arg Lys Ile Ile Lys Ala Met Leu Ser Tyr
         115                 120                 125
Val Trp Pro Lys Asp Arg Pro Asp Leu Arg Ala Arg Val Ala Ile Ser
     130                 135                 140
Leu Gly Phe Leu Gly Gly Ala Lys Ala Met Asn Ile Val Val Pro Phe
145                 150                 155                 160
Met Phe Lys Tyr Ala Val Asp Ser Leu Asn Gln Met Ser Gly Asn Met
                 165                 170                 175
Leu Asn Leu Ser Asp Ala Pro Asn Thr Val Ala Thr Met Ala Thr Ala
             180                 185                 190
Val Leu Ile Gly Tyr Gly Val Ser Arg Ala Gly Ala Ala Phe Phe Asn
         195                 200                 205
Glu Val Arg Asn Ala Val Phe Gly Lys Val Ala Gln Asn Ser Ile Arg
     210                 215                 220
Arg Ile Ala Lys Asn Val Phe Leu His Leu His Asn Leu Asp Leu Gly
225                 230                 235                 240
Phe His Leu Ser Arg Gln Thr Gly Ala Leu Ser Lys Ala Ile Asp Arg
                 245                 250                 255
Gly Thr Arg Gly Ile Ser Phe Val Leu Ser Ala Leu Val Phe Asn Leu
             260                 265                 270
Leu Pro Ile Met Phe Glu Val Met Leu Val Ser Gly Val Leu Tyr Tyr
         275                 280                 285
Lys Cys Gly Ala Gln Phe Ala Leu Val Thr Leu Gly Thr Leu Gly Thr
     290                 295                 300
Tyr Thr Ala Phe Thr Val Ala Val Thr Arg Trp Arg Thr Arg Phe Arg
305                 310                 315                 320
Ile Glu Met Asn Lys Ala Asp Asn Asp Ala Gly Asn Ala Ala Ile Asp
                 325                 330                 335
Ser Leu Leu Asn Tyr Glu Thr Val Lys Tyr Phe Asn Asn Glu Arg Tyr
             340                 345                 350
Glu Ala Gln Arg Tyr Asp Gly Phe Leu Lys Thr Tyr Glu Thr Ala Ser
         355                 360                 365
Leu Lys Ser Thr Ser Thr Leu Ala Met Leu Asn Phe Gly Gln Ser Ala
     370                 375                 380
Ile Phe Ser Val Gly Leu Thr Ala Ile Met Val Leu Ala Ser Gln Gly
385                 390                 395                 400
Ile Val Ala Gly Thr Leu Thr Val Gly Asp Leu Val Met Val Asn Gly
                 405                 410                 415
Leu Leu Phe Gln Leu Ser Leu Pro Leu Asn Phe Leu Gly Thr Val Tyr
             420                 425                 430
Arg Glu Thr Arg Gln Ala Leu Ile Asp Met Asn Thr Leu Phe Thr Leu
         435                 440                 445
Leu Lys Val Asp Thr Gln Ile Lys Asp Lys Val Thr Ala Ser Pro Leu
     450                 455                 460
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Gln Ile Thr Pro Gln Thr Ala Thr Val Ala Phe Asp Asn Val His Phe
465 470 475 480
Glu Tyr Ile Glu Gly Gln Lys Val Leu Ser Gly Ile Ser Phe Glu Val
485 490 495
Pro Ala Gly Lys Lys Val Ala Ile Val Gly Gly Ser Gly Ser Gly Lys
500 505 510
Ser Thr Ile Val Arg Leu Leu Phe Arg Phe Tyr Glu Pro Gln Lys Gly
515 520 525
Ser Ile Tyr Leu Ala Gly Gln Asn Ile Gln Asp Val Ser Leu Glu Ser
530 535 540
Leu Arg Arg Ala Val Gly Val Val Pro Gln Asp Ala Val Leu Phe His
545 550 555 560
Asn Thr Ile Tyr Tyr Asn Leu Leu Tyr Gly Asn Ile Ser Ala Ser Pro
565 570 575
Glu Glu Val Tyr Ala Val Ala Lys Leu Ala Gly Leu His Asp Ala Ile
580 585 590
Leu Arg Met Pro His Gly Tyr Asp Thr Gln Val Gly Glu Arg Gly Leu
595 600 605
Lys Leu Ser Gly Gly Glu Lys Gln Arg Val Ala Ile Ala Arg Ala Ile
610 615 620
Leu Lys Asp Pro Pro Val Ile Leu Tyr Asp Glu Ala Thr Ser Ser Leu
625 630 635 640
Asp Ser Ile Thr Glu Glu Thr Ile Leu Gly Ala Met Lys Asp Val Val
645 650 655
Lys His Arg Thr Ser Ile Phe Ile Ala His Arg Leu Ser Thr Val Val
660 665 670
Asp Ala Asp Glu Ile Ile Val Leu Asp Gln Gly Lys Val Ala Glu Arg
675 680 685
Gly Thr His His Gly Leu Leu Ala Asn Pro His Ser Ile Tyr Ser Glu
690 695 700
Met Trp His Thr Gln Ser Ser Arg Val Gln Asn His Asp Asn Pro Lys
705 710 715 720
Trp Glu

<210> 11611
<211> 2608
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (204)..(1040)

<400> 11611
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ttattttaac agcaattgcc ttcaaagaaa aacctcggta tccaccaagt caggctcaag 300
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<211> 279
<212> PRT
<213> Homo sapiens

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<400> 11612

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             20                  25                  30
Ala Ala Leu Gln Asp Ser Pro Pro Glu Glu Tyr Ser Tyr Lys Lys Ser
         35                  40                  45
Ile Arg Asn Leu Phe Lys Asn Ile Pro Phe Val Leu Leu Leu Ile Thr
     50                  55                  60
Tyr Gly Ile Met Thr Gly Ala Phe Tyr Ser Val Ser Thr Leu Leu Asn
 65                  70                  75                  80
Gln Met Ile Leu Thr Tyr Tyr Glu Gly Glu Glu Val Asn Ala Gly Arg
                 85                  90                  95
Ile Gly Leu Thr Leu Val Val Ala Gly Met Val Gly Ser Ile Leu Cys
            100                 105                 110
Gly Leu Trp Leu Asp Tyr Thr Lys Thr Tyr Lys Gln Thr Thr Leu Ile
        115                 120                 125
Val Tyr Ile Leu Ser Phe Ile Gly Met Val Ile Phe Thr Phe Thr Leu
    130                 135                 140
Asp Leu Arg Tyr Ile Ile Ile Val Phe Val Thr Gly Gly Val Leu Gly
145                 150                 155                 160
Phe Phe Met Thr Gly Tyr Leu Pro Leu Gly Phe Glu Phe Ala Val Glu
                165                 170                 175
Ile Thr Tyr Pro Glu Ser Glu Gly Thr Ser Ser Gly Leu Leu Asn Ala
            180                 185                 190
Ser Ala Gln Ile Phe Gly Ile Leu Phe Thr Leu Ala Gln Gly Lys Leu
        195                 200                 205
Thr Ser Asp Tyr Gly Pro Lys Ala Gly Asn Ile Phe Leu Cys Val Trp
    210                 215                 220
Met Phe Ile Gly Ile Ile Leu Thr Ala Leu Ile Lys Ser Asp Leu Arg
225                 230                 235                 240
Arg His Asn Ile Asn Ile Gly Ile Thr Asn Val Asp Val Lys Ala Ile
                245                 250                 255
Pro Ala Asp Ser Pro Thr Asp Gln Glu Pro Lys Thr Val Met Leu Ser
            260                 265                 270
Lys Gln Ser Glu Ser Ala Ile
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<212> DNA
<213> Homo sapiens

<220>
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<222> (26)..(877)

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<400> 11613
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tggagggcag tatggtagtg ggctaccccc tggtggtggt tatgggggtc ctgcccctgg 180
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gccacctcca agttcctacg gtgcccagca gcctgggctt tatggacagg gtggcgcccc 360
tcccaatgtg gatcctgagg cctactcctg gttccagtcg gtggactcag atcacagtgg 420
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tgatgagacc tgcctcatga tgataaacat gtttgacaag accaagtcag gccgcatcga 540
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gtatgaccgg gaccgctcgg gctccattag ctacacagag ctgcagcaag ctctgtccca 660
aatgggctac aacctgagcc cccagttcac ccagcttctg gtctcccgct actgcccacg 720
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<210> 11614
<211> 284
<212> PRT
<213> Homo sapiens

<400> 11614
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Gly Gly Gln Tyr Gly Ser Gly Leu Pro Pro Gly Gly Gly Tyr Gly Gly
35 40 45
Pro Ala Pro Gly Gly Pro Tyr Gly Pro Pro Ala Gly Gly Gly Pro Tyr
50 55 60
Gly His Pro Asn Pro Gly Met Phe Pro Ser Gly Thr Pro Gly Gly Pro
65 70 75 80

Tyr Gly Gly Ala Ala Pro Gly Gly Pro Tyr Gly Gln Pro Pro Pro Ser
85 90 95
Ser Tyr Gly Ala Gln Gln Pro Gly Leu Tyr Gly Gln Gly Gly Ala Pro
100 105 110
Pro Asn Val Asp Pro Glu Ala Tyr Ser Trp Phe Gln Ser Val Asp Ser
115 120 125
Asp His Ser Gly Tyr Ile Ser Met Lys Glu Leu Lys Gln Ala Leu Val
130 135 140
Asn Cys Asn Trp Ser Ser Phe Asn Asp Glu Thr Cys Leu Met Met Ile
145 150 155 160
Asn Met Phe Asp Lys Thr Lys Ser Gly Arg Ile Asp Val Tyr Gly Phe
165 170 175
Ser Ala Leu Trp Lys Phe Ile Gln Gln Trp Lys Asn Leu Phe Gln Gln
180 185 190
Tyr Asp Arg Asp Arg Ser Gly Ser Ile Ser Tyr Thr Glu Leu Gln Gln
195 200 205
Ala Leu Ser Gln Met Gly Tyr Asn Leu Ser Pro Gln Phe Thr Gln Leu
210 215 220
Leu Val Ser Arg Tyr Cys Pro Arg Ser Ala Asn Pro Ala Met Gln Leu
225 230 235 240
Asp Arg Phe Ile Gln Val Cys Thr Gln Leu Gln Val Leu Thr Glu Ala
245 250 255
Phe Arg Glu Lys Asp Thr Ala Val Gln Gly Asn Ile Arg Leu Ser Phe
260 265 270
Glu Asp Phe Val Thr Met Thr Ala Ser Arg Met Leu
275 280

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<211> 2506
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (107)..(1054)

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gttgccggaa caggtggatg ccatcgtgag cgagtggatg ggctacggac tcctgcacga 420
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cctgccggcc tccgccgagc tcttcatagc ccccatcagc gaccagatgc tggaatggcg 540
cctgggcttc tggagccagg tgaagcagca ctatggtgtg gacatgagct gcctggaggg 600

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<210> 11616
<211> 316
<212> PRT
<213> Homo sapiens

<400> 11616

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Gly Thr Gly Ile Leu Ser Ile Phe Cys Ala Gln Ala Gly Ala Arg Arg
         35                  40                  45
Val Tyr Ala Val Glu Ala Ser Ala Ile Trp Gln Gln Ala Arg Glu Val
     50                  55                  60
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Val Arg Phe Asn Gly Leu Glu Asp Arg Val His Val Leu Pro Gly Pro
 65                  70                  75                  80
Val Glu Thr Val Glu Leu Pro Glu Gln Val Asp Ala Ile Val Ser Glu
                85                  90                  95
Trp Met Gly Tyr Gly Leu Leu His Glu Ser Met Leu Ser Ser Val Leu
            100                 105                 110
His Ala Arg Thr Lys Trp Leu Lys Glu Gly Gly Leu Leu Leu Pro Ala
        115                 120                 125
Ser Ala Glu Leu Phe Ile Ala Pro Ile Ser Asp Gln Met Leu Glu Trp
    130                 135                 140
Arg Leu Gly Phe Trp Ser Gln Val Lys Gln His Tyr Gly Val Asp Met
145                 150                 155                 160
Ser Cys Leu Glu Gly Phe Ala Thr Arg Cys Leu Met Gly His Ser Glu
                165                 170                 175
Ile Val Val Gln Gly Leu Ser Gly Glu Asp Val Leu Ala Arg Pro Gln
            180                 185                 190
Arg Phe Ala Gln Leu Glu Leu Ser Arg Ala Gly Leu Glu Gln Glu Leu
        195                 200                 205
Glu Ala Gly Val Gly Gly Arg Phe Arg Cys Ser Cys Tyr Gly Ser Ala
    210                 215                 220
Pro Met His Gly Phe Ala Ile Trp Phe Gln Val Thr Phe Pro Gly Gly
225                 230                 235                 240
Glu Ser Glu Lys Pro Leu Val Leu Ser Thr Ser Pro Phe His Pro Ala
                245                 250                 255
Thr His Trp Lys Gln Ala Leu Leu Tyr Leu Asn Glu Pro Val Gln Val
            260                 265                 270
Glu Gln Asp Thr Asp Val Ser Gly Glu Ile Thr Leu Leu Pro Ser Arg
        275                 280                 285
Asp Asn Pro Arg Arg Leu Arg Val Leu Leu Arg Tyr Lys Val Gly Asp
    290                 295                 300
Gln Glu Glu Lys Thr Lys Asp Phe Ala Met Glu Asp
305                 310                 315
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<210> 11617
<211> 2415
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (105)..(1775)

<400> 11617
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aaggagctta cccgcgcctc tactggtcta catggaggca catcgcttgt gggaagctgc 300
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cacctgagga gcgcctggaa tggtctgagg ttctgtccaa ctgcatgtct gaggaggaag 420
ttgaaaagca gagaaatcag ctttcagtgg acacgctaca gtttctgctc ttcttataca 480
ttcaacagtt gaacaaggtc tccctaagga catctttgat tggcgaagag tggcccagtc 540
ccagaaacaa atctcagtct cctgacctga ctgaaaaatc taattgtcat aataagaact 600
ggaatgatta cagtcaccaa gcttttgtct atgatcatct gtctgatctc ctcgagctgc 660
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gagaagctgt tgtggcgctc agcttcctta ttgaaggtac aataagtaga gccaggaaga 780
tctatccact tcatgaactt gcactgtggc aaccactgca tgcagatagt ggcttctcaa 840
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agaacaagtt ttatgaatgg ttgattaata caggacatcg ccaacagctg gacagccttg 1740
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<210> 11618
<211> 557
<212> PRT
<213> Homo sapiens

<400> 11618
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1 5 10 15
Val Gly Ala Leu Gln Val Pro Pro Pro Ser Lys Phe Ser Leu His Tyr

00827059.0960

0062760.0960-0062760.0960

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Leu Arg Lys Ile Ser Thr Tyr Val Gln Ile Arg Ala Thr Glu Gly Ala
            35                  40                  45
Tyr Pro Arg Leu Tyr Trp Ser Thr Trp Arg His Ile Ala Cys Gly Lys
        50                  55                  60
Leu Gln Leu Ala Lys Asp Leu Ala Trp Leu Tyr Phe Glu Ile Phe Asp
65                  70                  75                  80
Ser Leu Ser Met Lys Thr Pro Glu Glu Arg Leu Glu Trp Ser Glu Val
                85                  90                  95
Leu Ser Asn Cys Met Ser Glu Glu Glu Val Glu Lys Gln Arg Asn Gln
            100                 105                 110
Leu Ser Val Asp Thr Leu Gln Phe Leu Leu Phe Leu Tyr Ile Gln Gln
        115                 120                 125
Leu Asn Lys Val Ser Leu Arg Thr Ser Leu Ile Gly Glu Glu Trp Pro
    130                 135                 140
Ser Pro Arg Asn Lys Ser Gln Ser Pro Asp Leu Thr Glu Lys Ser Asn
145                 150                 155                 160
Cys His Asn Lys Asn Trp Asn Asp Tyr Ser His Gln Ala Phe Val Tyr
                165                 170                 175
Asp His Leu Ser Asp Leu Leu Glu Leu Leu Leu Asp Pro Lys Gln Leu
            180                 185                 190
Thr Ala Ser Phe His Ser Thr His Ser Ser Leu Val Ser Arg Glu Ala
        195                 200                 205
Val Val Ala Leu Ser Phe Leu Ile Glu Gly Thr Ile Ser Arg Ala Arg
    210                 215                 220
Lys Ile Tyr Pro Leu His Glu Leu Ala Leu Trp Gln Pro Leu His Ala
225                 230                 235                 240
Asp Ser Gly Phe Ser Lys Ile Ser Lys Thr Phe Ser Phe Tyr Lys Leu
                245                 250                 255
Glu Thr Trp Leu Arg Ser Cys Leu Thr Gly Asn Pro Phe Gly Thr Ser
            260                 265                 270
Ala Cys Leu Lys Ser Gly Lys Lys Leu Ala Trp Ala His Gln Val Glu
        275                 280                 285
Gly Thr Thr Lys Arg Ala Lys Ile Ala Cys Asn Thr His Val Ala Pro
    290                 295                 300
Arg Met His Arg Leu Val Val Met Ser Gln Val Tyr Lys Gln Thr Leu
305                 310                 315                 320
Ala Lys Ser Ser Asp Thr Leu Ala Gly Ala His Val Lys Ile His Arg
                325                 330                 335
Cys Asn Glu Ser Phe Ile Tyr Leu Leu Ser Pro Leu Arg Ser Val Thr
            340                 345                 350
Ile Glu Lys Cys Arg Asn Ser Ile Phe Val Leu Gly Pro Val Gly Thr
        355                 360                 365
Thr Leu His Leu His Ser Cys Asp Asn Val Lys Val Ile Ala Val Cys
    370                 375                 380
His Arg Leu Ser Ile Ser Ser Thr Thr Gly Cys Ile Phe His Val Leu
385                 390                 395                 400
Thr Pro Thr Arg Pro Leu Ile Leu Ser Gly Asn Gln Thr Val Thr Phe
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                405                 410                 415
Ala Pro Phe His Thr His Tyr Pro Met Leu Glu Asp His Met Ala Arg
            420                 425                 430
Thr Gly Leu Ala Thr Val Pro Asn Tyr Trp Asp Asn Pro Met Val Val
        435                 440                 445
Cys Arg Glu Asn Ser Asp Thr Arg Val Phe Gln Leu Leu Pro Pro Cys
    450                 455                 460
Glu Phe Tyr Val Phe Ile Ile Pro Phe Glu Met Glu Gly Asp Thr Thr
465                 470                 475                 480
Glu Ile Pro Gly Gly Leu Pro Ser Val Tyr Gln Lys Ala Leu Gly Gln
                485                 490                 495
Arg Glu Gln Lys Ile Gln Ile Trp Gln Lys Thr Val Lys Glu Ala His
            500                 505                 510
Leu Thr Lys Asp Gln Arg Lys Gln Phe Gln Val Leu Val Glu Asn Lys
        515                 520                 525
Phe Tyr Glu Trp Leu Ile Asn Thr Gly His Arg Gln Gln Leu Asp Ser
    530                 535                 540
Leu Val Pro Pro Ala Ala Gly Ser Lys Gln Ala Ala Gly
545                 550                 555
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<210> 11619
<211> 1665
<212> DNA
<213> Homo sapiens

<400> 11619

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agcctaaaag gccacctctg agcacttggg cagccactcc tctgggcctc agagggccat 180
gagcttggcc aggtaggcac agcggcgggg aagtcacagc tgtcaggtac cggccatggt 240
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agatcctaag actagagtga agtaggaaga agaattagaa aatccagtgg atgtcctgag 420
tatagggaac cagggccgtt gaaaatcagt aaaggttgat tacctggggc gagaccgggt 480
gactgtggca gtgcaggtga aggtaccctg gaccttctca gttcgctggc acataaggct 540
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<210> 11620
<211> 2304
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (14)..(868)

<400> 11620
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ggtgccccag ggccagcgac caccgcctcg tatcaagaat ttccagataa acaaccagat 180
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<400> 11621

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Asn Glu Trp Phe Thr Lys Tyr Thr Glu Met Asp Tyr Ala Arg Ala Gly
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<213> Homo sapiens

<400> 11629

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Trp	Asp	Leu	Gly	Arg	Pro	Pro	Gly	Ser	Thr	Ser	Phe	Ser	Gln	Lys	Gly
			20					25					30		
Arg	Glu	Ala	Asp	Ser	Arg	Gly	Ser	Gln	Glu	Ser	Arg	His	Leu	Leu	Ser
		35					40					45			
Pro	Gln	Leu	Val	Gln	Tyr	Gln	Cys	Gly	Asp	Ser	Gly	Lys	Gln	Gly	Arg
	50					55					60				
Glu	Thr	Arg	Arg	Ser	Ser	Cys	Arg	Gly	Cys	Cys	Leu	Glu	Lys	Met	Pro
65					70					75					80
Trp	Ser	Gln	Leu	Cys	Gly	Glu	Leu	Pro	Pro	Leu	Tyr	Gly	Ala	Glu	Pro
				85					90					95	
Glu	Ala	Ser	Arg	Ala	Pro	Arg	Pro	His	Thr	Tyr	Phe	Thr	Pro	His	Pro
			100					105					110		
Asp	Ser	Met	Asp	Thr	Glu	Asp	Ser	Ala	Ser	Ser	Gln	Lys	Leu	Asp	Leu
		115					120					125			
Ser	Gly	Glu	Met	Val	Pro	Gly	Pro	Leu	Pro	Ala	Pro	Gly	Lys	Cys	Arg
	130					135					140				
Lys	Arg	Arg	Met	Pro	Val	Gly	Arg	Phe	Gln	Thr	Phe	Ser	Asp	Gln	Glu
145					150					155					160
Gly	Leu	Gly	Cys	Pro	Glu	Arg	Thr	His	Gly	Ser	Ser	Val	Pro	Lys	Glu
				165					170					175	
Ser	Leu	Ser	Arg	Gln	Asp	Ser	Ser	Glu	Ser	Arg	Asn	Gly	Arg	Thr	Leu
			180					185					190		
Ser	Gln	Pro	Glu	Ala	Ser	Glu	Thr	Glu	Glu	Gln	Arg	Ser	Arg	Gly	Val
		195					200					205			
Thr	Asp	Thr	Arg	Glu	Pro	Ser	Pro	Gly	Ser	His	Ser	Ala	Leu	Pro	Gly
	210					215					220				
Lys	Lys	Thr	Ala	Leu	Gln	Ala	Ala	Leu	Leu	Glu	Thr	Leu	Leu	Asp	Leu
225					230					235					240

0038270.0640

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Val Asp Arg Ser Trp Gly Gly Cys Arg Ser Leu His Ser Asn Glu Ala
                245                 250                 255
Phe Leu Ala Gln Ala Arg His Ile Leu Ser Ser Val Glu Glu Phe Thr
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Ala Ala Gln Asp Ser Ser Ala Met Val Gly Glu Asp Val Gly Ser Leu
        275                 280                 285
Ala Leu Glu Ser Lys Ser Leu Gln Ser Arg Leu Ala Glu Gln Gln Gln
    290                 295                 300
Gln His Ala Arg Glu Met Ser Glu Val Thr Ala Glu Leu His His Thr
305                 310                 315                 320
His Lys Glu Leu Asp Asp Leu Arg Gln His Leu Asp Lys Ser Leu Glu
                325                 330                 335
Glu Asn Ser Arg Leu Lys Ser Leu Leu Leu Ser Met Lys Lys Glu Val
            340                 345                 350
Lys Ser Ala Asp Thr Ala Ala Thr Leu Asn Leu Gln Ile Ala Gly Leu
        355                 360                 365
Gln Thr Ser Val Lys Arg Leu Cys Val Glu Ile Val Glu Leu Lys Gln
    370                 375                 380
His Leu Glu His Tyr Asp Lys Ile Gln Glu Leu Thr Gln Met Leu Gln
385                 390                 395                 400
Glu Ser His Ser Ser Leu Val Ser Thr Asn Glu His Leu Leu Gln Glu
                405                 410                 415
Leu Ser Gln Val Arg Ala Gln His Arg Ala Glu Val Glu Gln Met His
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Trp Ser Tyr Gln Glu Leu Lys Lys Thr Met Ala Leu Phe Pro His Ser
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Ser Ala Ser His Gly Gly Cys Gln Ala Cys
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<210> 11630
<211> 2526
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (454)..(894)

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tgggcttttg ctttctggcg gagggatctg cggcggttta ggaggcggcg ctgatcctgg 180
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cctcagcccg tcccgccgga cccgctttcc tcaactctcc atcttctcct gccgaccgag 360
atcgccgagg cggcctcagg ctccctagcc ccttccccgt cccttccccg cccccgtccc 420
cgccccgggg gccgccgcca cccgcctccc accatggctc tgaagagaat ccacaaggaa 480

ttgaatgatc tggcacggga ccctccagca cagtgttcag caggtcctgt tggagatgat 540
atgttccatt ggcaagctac aataatgggg ccaaatgaca gtccctatca gggtggagta 600
tttttcttga caattcattt cccaacagat taccccttca aaccacctaa ggttgcattt 660
acaacaagaa tttatcatcc aaatattaac agtaatggca gcatttgtct tgatattcta 720
cgatcacagt ggtctccagc actaactatt tcaaaagtac tcttgtccat ctgttctctg 780
ttgtgtgatc ccaatccaga tgatccttta gtgcctgaga ttgctcggat ctacaaaaca 840
gatagagaaa agtacaacag aatagctcgg gaatggactc agaagtatgc gatgtaatta 900
aagaaattat tggataacct ctacaaataa agatagggga actctgaaag agaaagtcct 960
tttgatttcc atttgactgc tttctatgag cccacgcctc atcttcccct gtgcacatgt 1020
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tacttctgta ccaacattgc ctcctagcag agaagtgtgt gtgtgacaag ccagttctac 1140
aggcattacc taggtgtgag actaaaagct tttcttattg acttaaattt ggataacagc 1200
aaggtgtgag gggggtggtg ggtatggtgt gtgcttggat gggaaagaaa aggctccact 1260
cacctatagg agattatttt taagtggaat ccatttaaac tcaaaacagt tatgaaaagc 1320
aaggtgaaga acatgaagct gtgtctgtat tcattttatt ccgaaggagc tacgtcttag 1380
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ttcccaactc ttttacatct ccctacccct tcaaccttg gcctttcagc ccttctttct 1560
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atggaaatac ttgtgtatat ttaaagaccc aattgctcct ctggagcttg tactttcaag 1740
aatgattaat ctgtgtaata aactggttac tacagtcatt acatataatt ttgtgtgaat 1800
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atttccatga aacaacacat gcagcattcc aggaacttga ttgttaaatt caataagaaa 2040
tttgctttat taatgaaact aagctgcatt tcatcaaaac cttgtgacat tcccttggta 2100
cataggacat aaaacacaga ggcattgcta tttggtaagt taagcttctg tgattgtaat 2160
tataaaagag caacattgac caaacctggg aaacaagagc acagtcttgt ttggagagtc 2220
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<210> 11631
<211> 147
<212> PRT
<213> Homo sapiens

<400> 11631
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20 25 30
Trp Gln Ala Thr Ile Met Gly Pro Asn Asp Ser Pro Tyr Gln Gly Gly

US 9,546,205 B2

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         35                  40                  45
Val Phe Phe Leu Thr Ile His Phe Pro Thr Asp Tyr Pro Phe Lys Pro
     50                  55                  60
Pro Lys Val Ala Phe Thr Thr Arg Ile Tyr His Pro Asn Ile Asn Ser
 65                  70                  75                  80
Asn Gly Ser Ile Cys Leu Asp Ile Leu Arg Ser Gln Trp Ser Pro Ala
                 85                  90                  95
Leu Thr Ile Ser Lys Val Leu Leu Ser Ile Cys Ser Leu Leu Cys Asp
            100                 105                 110
Pro Asn Pro Asp Asp Pro Leu Val Pro Glu Ile Ala Arg Ile Tyr Lys
        115                 120                 125
Thr Asp Arg Glu Lys Tyr Asn Arg Ile Ala Arg Glu Trp Thr Gln Lys
    130                 135                 140
Tyr Ala Met
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<210> 11632
<211> 2104
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (16)..(618)

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ttgcttctca gtaccaatat gaagtgggta cagttttcaa acctacacgt tgatgttcca 180
aaggatttga ccaaacctgt ggcaacaatc tctgatgaac cagacatatt atataagcgc 240
ctctcggttt tggtgaaagg tcacgataag gctgtattgg acagttatga atattttgct 300
gtgcttgctg ctaaagaact tggtatctct attaaagtac atgaacctcc aaggaaaata 360
gagcgattta ctcttctcca atcagtgcat atttacaaga agcacagagt tcagtatgaa 420
atgagaacac tttacagatg tttagagtta gaacatctaa ctggaagcac agcagatgtc 480
tacttggaat atattcagcg aaacttacct gaaggggttg ccatggaagt aacaaagaca 540
caattagaac agttaccaga acacatcaag gagccaatct gggaaacact atcagaagaa 600
aaagaagaaa gcaagtcata aagcctcagg gaggccattt ttgcctaaat ttgaaatgag 660
ggtgggccag atgagtatgt ttaagtggag agtgcttcca gctgagatga tttgagtctg 720
tcctaactgc tccattgagt tctcgtgccc tcatcagctg agggcaggga atggaacttt 780
aatggaagaa ccacttttat ctattctttt tattcattgt ttcagttctg atttcagcaa 840
acatgagcaa accactttga ctgaaagcag aaagagtgaa aattctattt tgttacgcta 900
ctggtgttca attattagtt tgtaccattt ttaatttatg tcagttgatg catctgaaaa 960
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ttaattcaga ttgagcagtt aaagtttttg ctatttacct ttgtgcaggc tggcatatgc 1080
taatttgggg gtggtaacca accgatttta tctcatgtaa gcattacatt ttgaagactg 1140
aatatacttc acagcagatc aaacacattt atggcatgca ctaacctctt cttggagccc 1200
agaactttat agagttgcct accagggtta ctgtaatgga atttatgatc ttaagaaatt 1260

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tacatccagc actgtagtta agtacccaaa attgaataga aataatggct tttgaaaatt 1380
gcacaaagca ggccaggcac ggtggctcac gcctgtaatc ccagcacttt gggaggccga 1440
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ctcaggaggc tgaggcagga gaatcgcgtg aacccgggcc cggtggaggc tgcagtgaga 1620
cgagatcgcg ccactgcact ccagcctggc gacagagcga gacaccgtct caaaaaaaaa 1680
aaaaaagaaa attgtgcaaa gcataggtaa atatttttct ttattaagct tctcactgag 1740
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tgcattgcct attctttttt cctgacatgc tatcaggtat cagtgtgttg aatacataat 2040
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catg 2104

<210> 11633
<211> 201
<212> PRT
<213> Homo sapiens

<400> 11633

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Gly	Leu	Gly	Asn	Phe	Ser	Val	Asn	Thr	Ser	Lys	Gly	Asn	Thr	Ala	Lys
			20					25					30		
Asn	Gly	Gly	Leu	Leu	Leu	Ser	Thr	Asn	Met	Lys	Trp	Val	Gln	Phe	Ser
		35					40					45			
Asn	Leu	His	Val	Asp	Val	Pro	Lys	Asp	Leu	Thr	Lys	Pro	Val	Ala	Thr
	50					55					60				
Ile	Ser	Asp	Glu	Pro	Asp	Ile	Leu	Tyr	Lys	Arg	Leu	Ser	Val	Leu	Val
65					70					75					80
Lys	Gly	His	Asp	Lys	Ala	Val	Leu	Asp	Ser	Tyr	Glu	Tyr	Phe	Ala	Val
				85					90					95	
Leu	Ala	Ala	Lys	Glu	Leu	Gly	Ile	Ser	Ile	Lys	Val	His	Glu	Pro	Pro
			100					105					110		
Arg	Lys	Ile	Glu	Arg	Phe	Thr	Leu	Leu	Gln	Ser	Val	His	Ile	Tyr	Lys
		115					120					125			
Lys	His	Arg	Val	Gln	Tyr	Glu	Met	Arg	Thr	Leu	Tyr	Arg	Cys	Leu	Glu
	130					135					140				
Leu	Glu	His	Leu	Thr	Gly	Ser	Thr	Ala	Asp	Val	Tyr	Leu	Glu	Tyr	Ile
145					150					155					160
Gln	Arg	Asn	Leu	Pro	Glu	Gly	Val	Ala	Met	Glu	Val	Thr	Lys	Thr	Gln
				165					170					175	
Leu	Glu	Gln	Leu	Pro	Glu	His	Ile	Lys	Glu	Pro	Ile	Trp	Glu	Thr	Leu
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Ser	Glu	Glu	Lys	Glu	Glu	Ser	Lys	Ser							

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195 200

<210> 11634
<211> 2225
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (137)..(1963)

<400> 11634
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gtacttttca tggtgcatgg aaggaaagcc aatgcgcagg tgtaccaaca ttcgaccagg 180
agagactgga atggatgtaa caagccgctg cacccttgga gaccccaaca aactgccaga 240
aggggttccc caacctgccc gcatgcccta tatctcagac aagcaccctc gacaaacctt 300
ggaagtgatt aaccttctga gaaagcaccg ggagctatgt gatgtggtgc tagttgtggg 360
cgccaagaag atatatgccc atcgagtcat tttgtcagcc tgtagtccct acttccgagc 420
tatgtttaca ggagaattgg cagagagccg tcagacagaa gtagtgatcc gagacattga 480
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agaaaacatt agaacaaatt ttattatttg ccggtgcctc aacaaatgga aatacaatcc 2100

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cccac 2225

<210> 11635
<211> 609
<212> PRT
<213> Homo sapiens

<400> 11635
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Leu Pro Glu Gly Val Pro Gln Pro Ala Arg Met Pro Tyr Ile Ser Asp
35 40 45
Lys His Pro Arg Gln Thr Leu Glu Val Ile Asn Leu Leu Arg Lys His
50 55 60
Arg Glu Leu Cys Asp Val Val Leu Val Val Gly Ala Lys Lys Ile Tyr
65 70 75 80
Ala His Arg Val Ile Leu Ser Ala Cys Ser Pro Tyr Phe Arg Ala Met
85 90 95
Phe Thr Gly Glu Leu Ala Glu Ser Arg Gln Thr Glu Val Val Ile Arg
100 105 110
Asp Ile Asp Glu Arg Ala Met Glu Leu Leu Ile Asp Phe Ala Tyr Thr
115 120 125
Ser Gln Ile Thr Val Glu Glu Gly Asn Val Gln Thr Leu Leu Pro Ala
130 135 140
Ala Cys Leu Leu Gln Leu Ala Glu Ile Gln Glu Ala Cys Cys Glu Phe
145 150 155 160
Leu Lys Arg Gln Leu Asp Pro Ser Asn Cys Gln Gly Ile Arg Ala Phe
165 170 175
Ala Asp Thr His Ser Cys Arg Glu Leu Leu Arg Ile Ala Asp Lys Phe
180 185 190
Thr Gln His Asn Phe Gln Glu Val Met Glu Ser Glu Glu Phe Met Leu
195 200 205
Leu Pro Ala Asn Gln Leu Ile Asp Ile Ile Ser Ser Asp Glu Leu Asn
210 215 220
Val Arg Ser Glu Glu Gln Val Phe Asn Ala Val Met Ala Trp Val Lys
225 230 235 240
Tyr Ser Ile Gln Glu Arg Arg Pro Gln Leu Pro Gln Val Leu Gln His
245 250 255
Val Arg Leu Pro Leu Leu Ser Pro Lys Phe Leu Val Gly Thr Val Gly
260 265 270
Ser Asp Pro Leu Ile Lys Ser Asp Glu Glu Cys Arg Asp Leu Val Asp
275 280 285
Glu Ala Lys Asn Tyr Leu Leu Leu Pro Gln Glu Arg Pro Leu Met Gln

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0002760946

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    290                 295                 300
Gly Pro Arg Thr Arg Pro Arg Lys Pro Ile Arg Cys Gly Glu Val Leu
305                 310                 315                 320
Ser Ala Val Gly Gly Trp Cys Ser Gly Asp Ala Ile Ser Asn Val Glu
                325                 330                 335
Arg Tyr Asp Pro Gln Thr Asn Glu Trp Arg Met Val Ala Ser Met Ser
            340                 345                 350
Lys Arg Arg Cys Gly Val Gly Val Ser Val Leu Asp Asp Leu Leu Tyr
        355                 360                 365
Ala Val Gly Gly His Asp Gly Ser Ser Tyr Leu Asn Ser Val Glu Arg
    370                 375                 380
Tyr Asp Pro Lys Thr Asn Gln Trp Ser Ser Asp Met Ala Pro Thr Ser
385                 390                 395                 400
Thr Cys Arg Thr Ser Val Gly Val Ala Val Leu Gly Gly Phe Leu Tyr
                405                 410                 415
Ala Val Gly Gly Gln Asp Gly Val Ser Cys Leu Asn Ile Val Glu Arg
            420                 425                 430
Tyr Asp Pro Lys Glu Asn Lys Trp Thr Arg Val Ala Ser Met Ser Thr
        435                 440                 445
Arg Arg Leu Gly Val Ala Val Ala Val Leu Gly Gly Phe Leu Tyr Ala
    450                 455                 460
Val Gly Gly Ser Asp Gly Thr Ser Pro Leu Asn Thr Val Glu Arg Tyr
465                 470                 475                 480
Asn Pro Gln Glu Asn Arg Trp His Thr Ile Ala Pro Met Gly Thr Arg
                485                 490                 495
Arg Lys His Leu Gly Cys Ala Val Tyr Gln Asp Met Ile Tyr Ala Val
            500                 505                 510
Gly Gly Arg Asp Asp Thr Thr Glu Leu Ser Ser Ala Glu Arg Tyr Asn
        515                 520                 525
Pro Arg Thr Asn Gln Trp Ser Pro Val Val Ala Met Thr Ser Arg Arg
    530                 535                 540
Ser Gly Val Gly Leu Ala Val Val Asn Gly Gln Leu Met Ala Val Gly
545                 550                 555                 560
Gly Phe Asp Gly Thr Thr Tyr Leu Lys Thr Ile Glu Val Phe Asp Pro
                565                 570                 575
Asp Ala Asn Thr Trp Arg Leu Tyr Gly Gly Met Asn Tyr Arg Arg Leu
            580                 585                 590
Gly Gly Gly Val Gly Val Ile Lys Met Thr His Cys Glu Ser His Ile
        595                 600                 605
Trp
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<210> 11636
<211> 2452
<212> DNA
<213> Homo sapiens

0023010.9+2020

<220>
<221> CDS
<222> (391)..(2181)

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ggcagccaag gcgtggctga tcacggcccg cagcctctac ccggcagact ttaacatcca 180
gtatgagatg tacaccatcg agcggaatgc agagcggacc gccaccgccg ggaggctgct 240
gtacgacatg tttgtgaatt tcccagacca gccggtggtg tggagagaaa tcagcattat 300
tacatcagca ttaaggaacg attacaggac aaacaaaccc aatttttaag aagtttattt 360
gaaactcttc ctggtcgagt ccagtgtgaa atgttactaa aggtcacgga acaatgcttc 420
aacacgttag aacgatcaga aatgttgctt ctacttttga ggcgcttccc tgaaacggtg 480
gtgcagcatg gggttggcct tggggaggca ctattagagg ctgaaactat tgaagaacaa 540
gaatctccag tgaactgctt tagaaaatta tttgtttgtg atgtccttcc tctaataatt 600
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gaattttata tcaattatgt cactaggtct actcaaatag aaaatcagca tcaaggcgcc 720
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Val Leu Pro Leu Ile Ile Asn Asn His Asp Val Arg Leu Pro Ala Asn
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Ile Glu Gly Leu Thr Glu Lys Ser Ser Gln Ile Val Asp Pro Trp Glu
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Asp Leu Cys Arg Tyr Met Asn Asn Phe Asp Ser Glu Ala His Ala Lys
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225                 230                 235                 240
Val Tyr Gly Asp Val Glu Ile Asp Arg Asn Lys His Ile His Lys Lys
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Val Thr Asn Ile Asp Met Leu Glu Glu Phe Ala Tyr Leu Arg Thr Gln
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<213> Homo sapiens

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35 40 45
Arg Lys Arg Lys Asn Cys Arg Gly Pro Ser Leu Ile Pro Gln Ile Lys
50 55 60
Gln Glu Lys Arg Asp Gly Ser Thr Asn Asn Asp Pro Tyr Val Ala Phe
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115 120 125

Glu Leu Leu His Leu Thr Leu Glu Val Val Glu Lys Arg Tyr His Leu

130 135 140

Gly Asp Tyr Gly Gly Glu Ile Leu Asn Glu Val Lys Ile Ser Arg Ser

145 150 155 160

Glu Lys Glu Leu Tyr Ala Thr Pro Ala Thr Leu His Asn Gly Asn His

165 170 175

His Lys Val Gln Glu Cys Lys Thr Lys His Pro His His Leu Ser Leu

180 185 190

Lys Glu Glu Ala Ser Asp Val Val Arg Gln Lys Lys Lys Tyr Pro Lys

195 200 205

Lys Pro Lys Ala Glu Ala Leu Ile Thr Ser Gln Gln Pro Thr Pro Glu

210 215 220

Thr Leu Pro Val Ile Asn Lys Ser Asp Ile Lys Gln Tyr Asp Phe His

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Ser Ser Asp Glu Asp Glu Phe Pro Gln Val Leu Ser Pro Val Ser Glu

245 250 255

Pro Glu Glu Glu Asn Asp Pro Asp Gly Pro Cys Ala Phe Arg Arg Arg

260 265 270

Ala Gly Cys Gln Tyr Tyr Ala Pro Arg Leu Asp Gln Ala Asn His Ser

275 280 285

Cys Glu Asn Ser Glu Leu Ala Asp Leu Asp Lys Leu Arg Tyr Arg His

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Cys Leu Thr Thr Leu Thr Val Pro Arg Arg Cys Ile Gly Phe Ala Arg

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Arg Arg Ile Gly Arg Gly Gly Arg Val Ile Met Asp Arg Ile Ser Thr

325 330 335

Glu His Asp Pro Val Leu Lys Gln Ile Asp Pro Glu Met Leu Asn Ser

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Phe Ser Ser Ser Ser Gln Thr Ile Asp Phe Ser Ser Asn Phe Ser Arg

355 360 365

Thr Asn Ala Ser Ser Lys His Cys Glu Asn Arg Leu Ser Leu Ser Glu

370 375 380

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Pro Gly Gln Thr Val Asn Asn Lys Arg Val Ser Ala Ala Ser Val Ala

420 425 430

Leu Leu Asn Thr Ser Lys Asn Gly Ile Ser Val Thr Gly Gly Ile Thr

435 440 445

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Gln Gln Leu Ala Gln Leu Gln Gln Lys Gln Gln Ser Gln His Ser Ser

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Ser Lys Thr Leu Asp Ser Ala Ser Ala His Phe Ala Ala Ser Ala Val

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<222> (7)..(2130)

<400> 11641

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Gly Pro Gly Pro Gly Ile Ser Ala Met Glu Ala Ser Gly Gly Asp Pro
50 55 60
Gly Pro Glu Ala Glu Asp Phe Glu Cys Ser Ser His Cys Ser Glu Leu
65 70 75 80
Ser Trp Arg Gln Asn Glu Gln Arg Arg Gln Gly Leu Phe Cys Asp Ile
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Thr Leu Cys Phe Gly Gly Ala Gly Gly Arg Glu Phe Arg Ala His Arg
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0005250450.0005250450

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Met Tyr Thr Gly Arg Ile Arg Val Ser Thr Gly Ser Val His Glu Val
165 170 175
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Gly Glu Phe Leu Lys Lys Lys Leu His Leu Ser Asn Cys Val Ala Ile
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His Ser Leu Ala His Met Tyr Thr Leu Ser Gln Leu Ala Leu Lys Ala
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Ala Asp Met Ile Arg Arg Asn Phe His Lys Val Ile Gln Asp Glu Glu
225 230 235 240
Phe Tyr Thr Leu Pro Phe His Leu Ile Arg Asp Trp Leu Ser Asp Leu
245 250 255
Glu Ile Thr Val Asp Ser Glu Glu Val Leu Phe Glu Thr Val Leu Lys
260 265 270
Trp Val Gln Arg Asn Ala Glu Glu Arg Glu Arg Tyr Phe Glu Glu Leu
275 280 285
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His Val Lys Pro Glu Arg Leu Val Ala Asn Asn Glu Val Cys Val Lys
305 310 315 320
Leu Val Ala Asp Ala Val Glu Arg His Ala Leu Arg Ala Glu Asn Ile
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Gln Ser Gly Thr Cys Gln His Pro Thr Ser His Val Ser Leu Leu Pro
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Arg Tyr Gly Gln Asn Met Asp Val Ile Met Val Ile Gly Gly Val Ser
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370 375 380
Asp Arg Trp Val Asn Leu Pro His Ile His Asn His Leu Asp Gly His
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Trp Glu His Val Cys Ser Leu Met Thr Arg Lys His Ser Phe Gly Leu
435 440 445
Thr Glu Val Lys Gly Lys Leu Tyr Ser Ile Gly Gly His Gly Asn Phe
450 455 460
Ser Pro Gly Phe Lys Asp Val Thr Val Tyr Asn Pro Glu Leu Asp Lys
465 470 475 480
Trp His Asn Leu Glu Ser Ala Pro Lys Ile Leu Arg Asp Val Lys Ala
485 490 495

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Leu Ala Ile Glu Asp Arg Phe Val Tyr Ile Ala Ala Arg Thr Pro Val
            500                 505                 510
Asp Arg Asp Thr Glu Asp Gly Leu Lys Ala Val Ile Thr Cys Tyr Asp
        515                 520                 525
Thr Glu Thr Arg Gln Trp Gln Asp Val Glu Ser Leu Pro Leu Ile Asp
    530                 535                 540
Asn Tyr Cys Phe Phe Gln Met Ser Val Val Asn Ser Asn Phe Tyr Gln
545                 550                 555                 560
Thr Ala Ser Cys Cys Pro Lys Ser Tyr Cys Leu Glu Asn Glu Glu Ala
                565                 570                 575
Val Arg Lys Ile Ala Ser Gln Val Ser Asp Glu Ile Leu Glu Ser Leu
            580                 585                 590
Pro Pro Glu Val Leu Ser Ile Glu Gly Ala Ala Ile Cys Tyr Tyr Lys
        595                 600                 605
Asp Asp Val Phe Ile Ile Gly Gly Trp Lys Asn Ser Asp Asp Ile Asp
    610                 615                 620
Lys Gln Tyr Arg Lys Glu Ala Tyr Arg Tyr Cys Ala Glu Arg Lys Arg
625                 630                 635                 640
Trp Met Leu Leu Pro Pro Met Pro Gln Pro Arg Cys Arg Ala Thr Ala
                645                 650                 655
Cys His Val Arg Ile Pro Tyr Arg Tyr Leu His Gly Thr Gln Arg Tyr
            660                 665                 670
Pro Met Pro Gln Asn Leu Met Trp Gln Lys Asp Arg Ile Arg Gln Met
        675                 680                 685
Gln Glu Ile His Arg His Ala Leu Asn Met Arg Arg Val Pro Ser Ser
    690                 695                 700
Gln Ile Glu Cys
705
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<210> 11643
<211> 2232
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (428)..(2068)

<400> 11643
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cctgacatcg ctcccagcgc tcgaggaccg aggcctgctg tggaggacac cgtgctccct 180
cgggacctgc tctggattcc ggcccggacg tccccttgga gctctgcatc tccaacctgg 240
aacccaaccc agaagtctca agtttgacgc atcacgtggc gtgcggatcc actgagggtc 300
cacagagagg ggcgcccatc tcctgcgtct cagttatcct ggtgttggga attctgtgcc 360
ctaaagaatt ccgactcaga tccgaacggg gatctggtgg aatcgagggt gaaagaccag 420
agggacaatg ttctactatc ccaacgtgct tcagcgccac accggctgct ttgccaccat 480

0002-0-0-0-0-0-0-0-0-0

ctggctggcg gcgactcgcg gcagccggtt ggtgaagcgc gaatacctga gggtgaatgt 540
ggtgaaaacc tgcgaggaaa tcctcaatta cgtgctggta cgagtgcaac ccccgcagcc 600
cggcctgccg cggccccgct tctccctcta tctctcagcc caacttcaga tcggtgtgat 660
ccgcgtctat tctcaacaat gccagtacct cgcggaggac atccagcaca tcttggagcg 720
cctccaccgt gcccagctgc agatccgaat agatatggag actgagctac ccagcctgct 780
gcttcctaac cacctggcca tgatggagac cctagaagat gctccagatc ccttttttgg 840
gatgatgtct gtggatccca gacttcctag tcctttcgat atccctcaga ttcgacacct 900
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cagggagcca gagaggattc cggtcactgt gctgccacct gaggccatca cgatcctgga 1020
ggcagagccc atacggatgc tggagattga gggtgaacgg gagctcccag aggtcagccg 1080
ccgagaactg gacctgctga tcgcagagga agaagaagct atcttgttag aaatcccgcg 1140
gctcccacct ccagctcctg cagaggtgga aggaatagga gaggcactgg gtcctgagga 1200
gctgaggctg acaggctggg aacctggggc cctactcatg gaggtgaccc ccccggagga 1260
gctgcgtctg ccagccccac ccagcccaga gaggaggccc ccagtccccc cacctcctcg 1320
ccgccgccgt cgtcgccggt tactgttctg ggacaaggag actcagatct ccccggagaa 1380
attccaggaa caactgcaaa ccagagccca ctgctgggaa tgtcctatgg tgcagccgcc 1440
cgagaggacc atcagaggcc ctgcggagtt gttcagaacc ccaactctct ctggctggct 1500
acccccctgaa ctactgggtc tctggaccca ttgtgcccag ccacccccaa aagccctcag 1560
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gatctcccta gaggcagctg aagaggagaa gtcccgcatc agcctcatcc caccagaaga 1740
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cagcagcctg gtgtcacctc tcagcccccg caggatggct gcccgggtct tctacctgct 1980
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ttttattaca gt 2232

<210> 11644
<211> 547
<212> PRT
<213> Homo sapiens

<400> 11644

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Thr	Ile	Trp	Leu	Ala	Ala	Thr	Arg	Gly	Ser	Arg	Leu	Val	Lys	Arg	Glu
			20					25					30		
Tyr	Leu	Arg	Val	Asn	Val	Val	Lys	Thr	Cys	Glu	Glu	Ile	Leu	Asn	Tyr
		35					40					45			
Val	Leu	Val	Arg	Val	Gln	Pro	Pro	Gln	Pro	Gly	Leu	Pro	Arg	Pro	Arg
	50					55					60				
Phe	Ser	Leu	Tyr	Leu	Ser	Ala	Gln	Leu	Gln	Ile	Gly	Val	Ile	Arg	Val
65					70					75					80

0002750.3456.2

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Tyr Ser Gln Gln Cys Gln Tyr Leu Ala Glu Asp Ile Gln His Ile Leu
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Glu Arg Leu His Arg Ala Gln Leu Gln Ile Arg Ile Asp Met Glu Thr
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Glu Leu Pro Ser Leu Leu Leu Pro Asn His Leu Ala Met Met Glu Thr
        115                 120                 125
Leu Glu Asp Ala Pro Asp Pro Phe Phe Gly Met Met Ser Val Asp Pro
    130                 135                 140
Arg Leu Pro Ser Pro Phe Asp Ile Pro Gln Ile Arg His Leu Leu Glu
145                 150                 155                 160
Ala Ala Ile Pro Glu Arg Val Glu Glu Ile Pro Pro Glu Val Pro Thr
                165                 170                 175
Glu Pro Arg Glu Pro Glu Arg Ile Pro Val Thr Val Leu Pro Pro Glu
            180                 185                 190
Ala Ile Thr Ile Leu Glu Ala Glu Pro Ile Arg Met Leu Glu Ile Glu
        195                 200                 205
Gly Glu Arg Glu Leu Pro Glu Val Ser Arg Arg Glu Leu Asp Leu Leu
    210                 215                 220
Ile Ala Glu Glu Glu Glu Ala Ile Leu Leu Glu Ile Pro Arg Leu Pro
225                 230                 235                 240
Pro Pro Ala Pro Ala Glu Val Glu Gly Ile Gly Glu Ala Leu Gly Pro
                245                 250                 255
Glu Glu Leu Arg Leu Thr Gly Trp Glu Pro Gly Ala Leu Leu Met Glu
            260                 265                 270
Val Thr Pro Pro Glu Glu Leu Arg Leu Pro Ala Pro Pro Ser Pro Glu
        275                 280                 285
Arg Arg Pro Pro Val Pro Pro Pro Pro Arg Arg Arg Arg Arg Arg Arg
    290                 295                 300
Leu Leu Phe Trp Asp Lys Glu Thr Gln Ile Ser Pro Glu Lys Phe Gln
305                 310                 315                 320
Glu Gln Leu Gln Thr Arg Ala His Cys Trp Glu Cys Pro Met Val Gln
                325                 330                 335
Pro Pro Glu Arg Thr Ile Arg Gly Pro Ala Glu Leu Phe Arg Thr Pro
            340                 345                 350
Thr Leu Ser Gly Trp Leu Pro Pro Glu Leu Leu Gly Leu Trp Thr His
        355                 360                 365
Cys Ala Gln Pro Pro Pro Lys Ala Leu Arg Arg Glu Leu Pro Glu Glu
    370                 375                 380
Ala Ala Ala Glu Glu Glu Arg Arg Lys Ile Glu Val Pro Ser Glu Ile
385                 390                 395                 400
Glu Val Pro Arg Glu Ala Leu Glu Pro Ser Val Pro Leu Met Val Ser
                405                 410                 415
Leu Glu Ile Ser Leu Glu Ala Ala Glu Glu Glu Lys Ser Arg Ile Ser
            420                 425                 430
Leu Ile Pro Pro Glu Glu Arg Trp Ala Trp Pro Glu Val Glu Ala Pro
        435                 440                 445
Glu Ala Pro Ala Leu Pro Val Val Pro Glu Leu Pro Glu Val Pro Met
    450                 455                 460
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Glu Met Pro Leu Val Leu Pro Pro Glu Leu Glu Leu Leu Ser Leu Glu
465 470 475 480
Ala Val His Arg Ala Val Ala Leu Glu Leu Gln Ala Asn Arg Glu Pro
485 490 495
Asp Phe Ser Ser Leu Val Ser Pro Leu Ser Pro Arg Arg Met Ala Ala
500 505 510
Arg Val Phe Tyr Leu Leu Leu Val Leu Ser Ala Gln Gln Ile Leu His
515 520 525
Val Lys Gln Glu Lys Pro Tyr Gly Arg Leu Leu Ile Gln Pro Gly Pro
530 535 540
Arg Phe His
545

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<210> 11645
<211> 1786
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (59)..(472)

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aagagagaac atccggaaga tgcagggtct catgttccgg tgcagcgcca gctgttgtga 180
ggacagccag gcctccatga agcaggtgca ccagtgcatc gagcgctgcc atgtgcctct 240
ggctcaagcc caggctttgg tcaccagtga gctggagaag ttccaggacc gcctggcccg 300
gtgcaccatg cattgcaatg acaaagccaa agattcaata gatgctggga gtaaggagct 360
tcaggtgaag cagcagctgg acagttgtgt gaccaagtgt gtggatgacc acatgcacct 420
catcccaact atgaccaaga agatgaagga ggctctctta tcaattggaa aataaaagta 480
tttgccagtg gccatcaggc tgagggcaag aatatatttt ttataaggaa ttgggaattt 540
tagtctttta agcaaagttt acgaatgaag aaatgaagga tggccacaag cgtaaggcat 600
atgtcacttg cctctggaca ctggttattt tatgtttcag tccctaaaaa atgaaatgga 660
aaaaagtggt gctaaatcga gtcagagata ttacaggaga gttttagagc ttattatttc 720
ctgtggccag tgcttgtcct ggcagtaagg ctctcccctg taacaagcca gagcctccca 780
aggtaccaga ctcttcttac tacacaggta ctaacaggct ggcaggttag agttggtgga 840
gtctgaggag agatattttc tctttgttgc caacatcctg tttaccaaaa gtgtcacccc 900
accatcttcc ataagctgtg aaacaaaatc aatgaggtca ctaacttaga agggaaagaa 960
agttttctgg gtctttgttt tcttgatttg gggtaattta tacaagggca tacaagttga 1020
ttttaagatg tggaactggg aggtagacta gtttggataa gaactttgaa atgttccttg 1080
tggatcccca tttctggtca tcaagatgtg gatgtacatt tcttaaaatt attacatgct 1140
gcatctttca gcctggagac tgtgcagaaa catgagaggt gatgacacac taattatggg 1200
aagcagaatt actggctgat ggcccctgag gctgtgtgta acaaaatgac aggacaatct 1260
tgcagtaaca ctttcccctt gaagagaagg gggttttgat tgtgatatat actagtatct 1320
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tgcctactta gccccctgaa ttaacagagc ccaattgaga caaacccctg gcaacaggaa 1500
attcaaggga gaaaaagtaa gcaacttggg ctaggatgag ctgactccct tagagcaaag 1560
gagagacagc ccccattacc aaataccatt tttgcctggg gcttgtgcag ctggcagtgt 1620
tcctgcccca gcatggcacc ttattgtttt gatagcaact tcgttgaatt ttcaccaact 1680
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cctagtggtt tgactttaaa aataaataag gtttaatttt ctcccc 1786

<210> 11646
<211> 138
<212> PRT
<213> Homo sapiens

<400> 11646
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Val Lys Ser Leu Glu Arg Glu Asn Ile Arg Lys Met Gln Gly Leu Met
20 25 30
Phe Arg Cys Ser Ala Ser Cys Cys Glu Asp Ser Gln Ala Ser Met Lys
35 40 45
Gln Val His Gln Cys Ile Glu Arg Cys His Val Pro Leu Ala Gln Ala
50 55 60
Gln Ala Leu Val Thr Ser Glu Leu Glu Lys Phe Gln Asp Arg Leu Ala
65 70 75 80
Arg Cys Thr Met His Cys Asn Asp Lys Ala Lys Asp Ser Ile Asp Ala
85 90 95
Gly Ser Lys Glu Leu Gln Val Lys Gln Gln Leu Asp Ser Cys Val Thr
100 105 110
Lys Cys Val Asp Asp His Met His Leu Ile Pro Thr Met Thr Lys Lys
115 120 125
Met Lys Glu Ala Leu Leu Ser Ile Gly Lys
130 135

<210> 11647
<211> 1600
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (49)..(1359)

<400> 11647
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ctgcggagca ccattctttt caatgcctac aaaaaggaga tatttaccac caacaatggc 120
tacaaatcca tgcagaaaaa acttcggagt aattggaaga ttcagagctt aaaagatgaa 180
atcacatctg agaagttaaa tggagtaaaa ctgtggatta cagctgggcc aagggaaaaa 240

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tttactgcag ctgagtttga aatcctgaag aaatatcttg acactggtgg agatgtcttt 300
gtgatgctag gagaaggtgg agaatccaga tttgacacca atattaactt tttactagaa 360
gaatatggaa tcatggttaa taatgatgct gtggttagaa atgtatatca caaatatttc 420
catcctaaag aagctctagt ttccagtgga gtcttgaaca gggaaattag ccgagctgca 480
ggaaaggctg tgcctgggat cattgatgag gaaagcagtg gaaacaatgc ccaggctctc 540
acctttgtgt atccttttgg tgccacattg agtgtcatga aaccagcagt ggcggttctg 600
tctacaggtt ctgtctgctt cccacttaac agacccattt tggctttcta tcactcaaag 660
aaccaaggtg ggaagctggc agtgcttggt tcatgtcaca tgttcagtga tcaatatttg 720
gacaaagaag aaaacagcaa aatcatggat gttgttttcc agtggctcac gacaggagac 780
atccacctaa accagattga tgctgaggac ccagagattt ctgactacat gatgctgccc 840
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agggacttta ccaccctctt cgacctgtcc atcttccagc tggataccac ctccttccac 960
agcgtcatcg aggctcacga gcagctaaat gtgaaacatg aaccactcca gctcatccag 1020
cctcagtttg agacgccgct gccaaccctt cagcctgcgg tttttcctcc cagtttccgg 1080
gagttaccac ctcctcctct ggagctattt gatttagatg aaacgttctc ctctgagaag 1140
gcacggctgg ctcagattac caataagtgt actgaagaag acctggaatt ttatgtcagg 1200
aagtgtggtg atattcttgg agtaaccagt aaactaccaa aggaccaaca ggatgccaaa 1260
catatccttg agcacgtctt cttccaagtg gtggagttca agaaattgaa ccaggaacat 1320
gacatcgata caagtgaaac agcattccag aacaatttct gaagaccatg cctcttgaag 1380
ctttttctgc ctcctgattc tctctttgta aactattttc aaattgtttt tcaactcctt 1440
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<210> 11648
<211> 437
<212> PRT
<213> Homo sapiens

<400> 11648
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Glu Ile Phe Thr Thr Asn Asn Gly Tyr Lys Ser Met Gln Lys Lys Leu
20 25 30
Arg Ser Asn Trp Lys Ile Gln Ser Leu Lys Asp Glu Ile Thr Ser Glu
35 40 45
Lys Leu Asn Gly Val Lys Leu Trp Ile Thr Ala Gly Pro Arg Glu Lys
50 55 60
Phe Thr Ala Ala Glu Phe Glu Ile Leu Lys Lys Tyr Leu Asp Thr Gly
65 70 75 80
Gly Asp Val Phe Val Met Leu Gly Glu Gly Gly Glu Ser Arg Phe Asp
85 90 95
Thr Asn Ile Asn Phe Leu Leu Glu Glu Tyr Gly Ile Met Val Asn Asn
100 105 110
Asp Ala Val Val Arg Asn Val Tyr His Lys Tyr Phe His Pro Lys Glu
115 120 125
Ala Leu Val Ser Ser Gly Val Leu Asn Arg Glu Ile Ser Arg Ala Ala

0 0 2 5 0 6 4 5 2 0 0 0

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    130                 135                 140
Gly Lys Ala Val Pro Gly Ile Ile Asp Glu Glu Ser Ser Gly Asn Asn
145                 150                 155                 160
Ala Gln Ala Leu Thr Phe Val Tyr Pro Phe Gly Ala Thr Leu Ser Val
                165                 170                 175
Met Lys Pro Ala Val Ala Val Leu Ser Thr Gly Ser Val Cys Phe Pro
            180                 185                 190
Leu Asn Arg Pro Ile Leu Ala Phe Tyr His Ser Lys Asn Gln Gly Gly
        195                 200                 205
Lys Leu Ala Val Leu Gly Ser Cys His Met Phe Ser Asp Gln Tyr Leu
    210                 215                 220
Asp Lys Glu Glu Asn Ser Lys Ile Met Asp Val Val Phe Gln Trp Leu
225                 230                 235                 240
Thr Thr Gly Asp Ile His Leu Asn Gln Ile Asp Ala Glu Asp Pro Glu
                245                 250                 255
Ile Ser Asp Tyr Met Met Leu Pro Tyr Thr Ala Thr Leu Ser Lys Arg
            260                 265                 270
Asn Arg Glu Cys Leu Gln Glu Ser Asp Glu Ile Pro Arg Asp Phe Thr
        275                 280                 285
Thr Leu Phe Asp Leu Ser Ile Phe Gln Leu Asp Thr Thr Ser Phe His
    290                 295                 300
Ser Val Ile Glu Ala His Glu Gln Leu Asn Val Lys His Glu Pro Leu
305                 310                 315                 320
Gln Leu Ile Gln Pro Gln Phe Glu Thr Pro Leu Pro Thr Leu Gln Pro
                325                 330                 335
Ala Val Phe Pro Pro Ser Phe Arg Glu Leu Pro Pro Pro Pro Leu Glu
            340                 345                 350
Leu Phe Asp Leu Asp Glu Thr Phe Ser Ser Glu Lys Ala Arg Leu Ala
        355                 360                 365
Gln Ile Thr Asn Lys Cys Thr Glu Glu Asp Leu Glu Phe Tyr Val Arg
    370                 375                 380
Lys Cys Gly Asp Ile Leu Gly Val Thr Ser Lys Leu Pro Lys Asp Gln
385                 390                 395                 400
Gln Asp Ala Lys His Ile Leu Glu His Val Phe Phe Gln Val Val Glu
                405                 410                 415
Phe Lys Lys Leu Asn Gln Glu His Asp Ile Asp Thr Ser Glu Thr Ala
            420                 425                 430
Phe Gln Asn Asn Phe
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<210> 11649
<211> 2235
<212> DNA
<213> Homo sapiens

<220>
<221> CDS

<222> (116)..(1597)

<400> 11649
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gcgcggctgc gcgaggagca ggaaaaggaa gaaggtagat aatgactata atgcccttcg 180
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caactggttt gcaaagtgct cagcaaagca ggctgtaggt ttagttgagc accggaaaga 360
acatgtaaga aaaacaatag atgacttaaa aaaagtgatg aaaaattttg aatccagagt 420
tgaattcaca gaagatttgc agaaaatgag cgatgctgca ggtgatattg ttgacatacg 480
agaagaaatt aaatgtgact tcgaatttaa agcaaaacac cgaattgctc ataaaccgca 540
ttccaaacca aaaacttcag atatttttga agcagatatt gcaaatgatg tgaaatccaa 600
ggatttgcta gctgataaag aactgtgggc tcgacttgaa gaactagaga gacaggaaga 660
attgctgggt gaacttgata gtaagcctga tactgtgatt gcaaatggag aagatacgac 720
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gaatagtcag ttgaactgtt cagtgaatgg ttccagttct taccacagtg atgatgatga 900
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cgaagaagcc acttgcagtg acaccagtga gagcattttg gaagaggaac cacaagaaaa 1380
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cactattcca gaacgaaagg aagttctgtt ggaagcatct gaagaaactg gaaagagggt 1560
ttcaaagttt aaagctgcca gattgcaaca gaaagactag gccctgtcta ggaaatggga 1620
atttacatcc taaaacctag ttgttcattt gtttagagta tctatagcaa aataggttac 1680
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tacaggcagt tttgtgccag ctgtgatatt gtgcatacca tatggaccat tttaaagaaa 1980
attttaaaat ttcaaataga ttcaacaatt acattacttg ctttcacatt ttaaaggcac 2040
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<210> 11650
<211> 494
<212> PRT
<213> Homo sapiens

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<400> 11650

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Ser Tyr Asn Ile Met Val Pro Phe Gly Pro Phe Ala Phe Met Pro Gly
        35                  40                  45
Lys Leu Val His Thr Asn Glu Val Thr Val Leu Leu Gly Asp Asn Trp
    50                  55                  60
Phe Ala Lys Cys Ser Ala Lys Gln Ala Val Gly Leu Val Glu His Arg
65                  70                  75                  80
Lys Glu His Val Arg Lys Thr Ile Asp Asp Leu Lys Lys Val Met Lys
                85                  90                  95
Asn Phe Glu Ser Arg Val Glu Phe Thr Glu Asp Leu Gln Lys Met Ser
            100                 105                 110
Asp Ala Ala Gly Asp Ile Val Asp Ile Arg Glu Glu Ile Lys Cys Asp
        115                 120                 125
Phe Glu Phe Lys Ala Lys His Arg Ile Ala His Lys Pro His Ser Lys
    130                 135                 140
Pro Lys Thr Ser Asp Ile Phe Glu Ala Asp Ile Ala Asn Asp Val Lys
145                 150                 155                 160
Ser Lys Asp Leu Leu Ala Asp Lys Glu Leu Trp Ala Arg Leu Glu Glu
                165                 170                 175
Leu Glu Arg Gln Glu Glu Leu Leu Gly Glu Leu Asp Ser Lys Pro Asp
            180                 185                 190
Thr Val Ile Ala Asn Gly Glu Asp Thr Thr Ser Ser Glu Glu Glu Lys
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Glu Asp Arg Asn Thr Asn Val Asn Ala Met His Gln Val Thr Asp Ser
    210                 215                 220
His Thr Pro Cys His Lys Asp Val Ala Ser Ser Glu Pro Phe Ser Gly
225                 230                 235                 240
Gln Val Asn Ser Gln Leu Asn Cys Ser Val Asn Gly Ser Ser Ser Tyr
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His Ser Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asn Ile
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Asp Asp Asp Asp Gly Asp Asn Asp His Glu Ala Leu Gly Val Gly Asp
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Asn Ser Ile Pro Thr Ile Tyr Phe Ser His Thr Val Glu Pro Lys Arg
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Val Arg Ile Asn Thr Gly Lys Asn Thr Thr Leu Lys Phe Ser Glu Lys
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Lys Glu Glu Ala Lys Arg Lys Arg Lys Asn Ser Thr Gly Ser Gly His
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Ser Ala Gln Glu Leu Pro Thr Ile Arg Thr Pro Ala Asp Ile Tyr Arg
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Leu Lys Ser Arg Ser Arg Glu Asn Ser Val Cys Ser Asp Thr Ser Glu
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Glu Glu Pro Gln Glu Asn Gln Lys Lys Leu Leu Pro Leu Ser Val Thr
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Pro Glu Ala Phe Ser Gly Thr Val Ile Glu Lys Glu Phe Val Ser Pro
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Ser Leu Thr Pro Pro Pro Ala Ile Ala His Pro Ala Leu Pro Thr Ile
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<400> 11652

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Gly Ser Asn Trp Gln Arg Ile Asp Leu Phe Asn Phe Gln Thr Asp Val
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Glu Gly Arg Val Val Glu Asn Ile Ser Lys Arg Cys Gly Gly Phe Leu
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Lys Lys Leu Ser Leu Arg Gly Cys Ile Gly Val Gly Asp Ser Ser Leu
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Lys Thr Phe Ala Gln Asn Cys Arg Asn Ile Glu His Leu Asn Leu Asn
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Gly Cys Thr Lys Ile Thr Asp Ser Thr Cys Tyr Ser Leu Ser Arg Phe
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Cys Ser Lys Leu Lys His Leu Asp Leu Thr Ser Cys Val Ser Ile Thr
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Asn Ser Ser Leu Lys Gly Ile Ser Glu Gly Cys Arg Asn Leu Glu Tyr
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210 215 220
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225 230 235 240
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Ile Gln Leu Ser Ile His Cys Pro Lys Leu Gln Ala Leu Ser Leu Ser
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325 330 335
Thr Cys Gly His Glu Arg Leu Arg Val Leu Glu Leu Asp Asn Cys Leu
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Leu Ile Thr Asp Val Ala Leu Glu His Leu Glu Asn Cys Arg Gly Leu
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Ile Ile Leu Gln Ser Ala Leu Val Ser Asn Leu Tyr Val Ile Ser Gln
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Gln Trp Ala Asp Val Ser Gly Gly Gly Pro Ala Arg Ser Tyr Pro Val
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Gly Gly Leu Cys Tyr Tyr Leu Ser Pro Pro Glu Ser Met Gly Ala Ile
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<400> 11657

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260 265 270
Arg Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys
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290 295 300
Lys Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp
305 310 315 320
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Asp Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu
355 360 365
Leu Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys
370 375 380
Lys Thr Ala Thr Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu
385 390 395 400
Asp Ala Leu Gln Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe
405 410 415
Ser Lys Ala Gly Arg Val Tyr Ile Ser Lys Cys Tyr Arg Glu Leu Gly
420 425 430
Lys Asn Ser Glu Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro
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Asp Val Thr Lys Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu
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Glu Val Ile Leu Arg Asp
465 470

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<211> 1025
<212> DNA
<213> Homo sapiens

<400> 11658
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ctggccttct accgagacaa cagagaaacg cacagcaact cgcatggagg aatcggcgaa 240
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agattaaatc agtaatatag agtctcccat caaagaaaag tccaggccct gatggcttca 540
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<210> 11659
<211> 1718
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (27)..(1286)

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<212> PRT
<213> Homo sapiens

<400> 11660
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35 40 45
Glu Gln Lys Arg Ala Pro Gly Lys Gln Pro Arg Lys Ala Pro Ser Glu
50 55 60
Ala Ser Ala Gln Glu Gln Arg Glu Lys Gln Pro Leu Glu Glu Ser Ala
65 70 75 80
Ser Arg Ala Pro Ser Thr Trp Glu Glu Ser Gly Leu Arg Tyr Asp Lys
85 90 95
Ala Tyr Pro Gly Asp Arg Arg Leu Ser Ser Val Met Thr Ile Val Lys
100 105 110
Ser Arg Pro Phe Arg Glu Lys Gln Gly Lys Ile Leu Leu Glu Gly Arg
115 120 125
Arg Leu Ile Ser Asp Ala Leu Lys Ala Gly Ala Val Pro Lys Met Phe
130 135 140
Phe Phe Ser Arg Leu Glu Tyr Leu Lys Glu Leu Pro Val Asp Lys Leu
145 150 155 160
Lys Gly Val Ser Leu Ile Lys Val Lys Phe Glu Asp Ile Lys Asp Trp
165 170 175
Ser Asp Leu Val Thr Pro Gln Gly Ile Met Gly Ile Phe Ala Lys Pro
180 185 190
Asp His Val Lys Met Thr Tyr Pro Lys Thr Gln Leu Gln His Ser Leu
195 200 205
Pro Leu Leu Leu Ile Cys Asp Asn Leu Arg Asp Pro Gly Asn Leu Gly
210 215 220
Thr Ile Leu Arg Ser Ala Ala Gly Ala Gly Cys Ser Lys Val Leu Leu
225 230 235 240
Thr Lys Gly Cys Val Asp Ala Trp Glu Pro Lys Val Leu Arg Ala Gly
245 250 255
Met Gly Ala His Phe Arg Met Pro Ile Ile Asn Asn Leu Glu Trp Glu
260 265 270
Thr Val Pro Asn Tyr Leu Pro Pro Asp Thr Arg Val Tyr Val Ala Asp

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        275                 280                 285
Asn Cys Gly Leu Tyr Ala Gln Ala Glu Met Ser Asn Lys Ala Ser Asp
    290                 295                 300
His Gly Trp Val Cys Asp Gln Arg Val Met Lys Phe His Lys Tyr Glu
305                 310                 315                 320
Glu Glu Glu Asp Val Glu Thr Gly Ala Ser Gln Asp Trp Leu Pro His
                325                 330                 335
Val Glu Val Gln Ser Tyr Asp Ser Asp Trp Thr Glu Ala Pro Ala Ala
            340                 345                 350
Val Val Ile Gly Gly Glu Thr Tyr Gly Val Ser Leu Glu Ser Leu Gln
        355                 360                 365
Leu Ala Glu Ser Thr Gly Gly Lys Arg Leu Leu Ile Pro Val Val Pro
    370                 375                 380
Gly Val Asp Ser Leu Asn Ser Ala Met Ala Ala Ser Ile Leu Leu Phe
385                 390                 395                 400
Glu Gly Lys Arg Gln Leu Arg Gly Arg Ala Glu Asp Leu Ser Arg Asp
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Arg Ser Tyr His
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<210> 11661
<211> 922
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (93)..(629)

<400> 11661

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aaaaaccaat tatgtatagt cataaaaatt acaatttatg atgcaaataa tgtaaaatgt 840
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<212> PRT
<213> Homo sapiens

<400> 11662
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Tyr Val Asp Gly Lys Glu Glu Ile Arg Lys Glu Trp Met Phe Lys Leu
35 40 45
Val Gly Lys Glu Thr Phe Tyr Val Gly Ala Ala Lys Thr Lys Ala Thr
50 55 60
Ile Asn Ile Asp Ala Ile Ser Gly Phe Ala Tyr Glu Tyr Thr Leu Glu
65 70 75 80
Ile Asn Gly Lys Ser Leu Lys Lys Tyr Met Glu Asp Arg Ser Lys Thr
85 90 95
Thr Asn Thr Trp Val Leu His Met Asp Gly Glu Asn Phe Arg Ile Val
100 105 110
Leu Glu Lys Asp Ala Met Asp Val Trp Cys Asn Gly Lys Lys Leu Glu
115 120 125
Thr Ala Gly Glu Phe Val Asp Asp Gly Thr Glu Thr His Phe Ser Ile
130 135 140
Gly Asn His Asp Cys Tyr Ile Lys Ala Val Ser Ser Gly Lys Arg Lys
145 150 155 160
Glu Gly Ile Ile His Thr Leu Ile Val Asp Asn Arg Glu Ile Pro Glu
165 170 175
Ile Ala Ser

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<211> 2478
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (158)..(1384)

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tgtcgacctt cttataagat acattttgga agtcaaaatg aaagttttct gtgaagtttt 180
agaagagtta tacaagaagg tacttcttgg agccacactt gaaaatgaca gccatgatta 240
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0202JC0 6 5 2 2 0 9 . 6 0 4 5 0

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aatgctcctt cagttaacag tgatcaaagt gatgacaacc cggatattgt ctgtcaaaac 480
cgagttccat gcaaaggagc agtacagaga tgtaattaaa attctcttag aatcagccaa 540
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ttcctggatt gctttttgcc agaaaaatct ttctgaatac tctgagagta ataaagcaat 720
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gaaaacagaa attctaaagc agttcctgac tcatttcgac accatttttg aagtgtttta 840
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<211> 409
<212> PRT
<213> Homo sapiens

<400> 11664
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Trp Ala Asn Thr Cys Gly Ile Gln Gly Arg His Gln Pro Ile Ser Val
        50                  55                  60
Gly Val Ala Pro Ile Ala Val Ala Pro Val Cys Leu Lys Thr Asn Ser
65                  70                  75                  80
Gln Met Ser Gly Ser Arg Glu Val Met Leu Leu Gln Leu Thr Val Ile
                85                  90                  95
Lys Val Met Thr Thr Arg Ile Leu Ser Val Lys Thr Glu Phe His Ala
            100                 105                 110
Lys Glu Gln Tyr Arg Asp Val Ile Lys Ile Leu Leu Glu Ser Ala Lys
        115                 120                 125
Val Asp Ser Lys Leu Ile Cys Met Phe Gln Asn Ser Asp Lys Leu Leu
    130                 135                 140
Ser His Met Ala Ala Gln Cys Leu Ala Leu Leu Leu Tyr Phe Gln Leu
145                 150                 155                 160
Arg Glu Lys Ile Thr Leu Ser Asn Ser Trp Ile Ala Phe Cys Gln Lys
                165                 170                 175
Asn Leu Ser Glu Tyr Ser Glu Ser Asn Lys Ala Ile Tyr Cys Leu Trp
            180                 185                 190
Thr Leu Thr Ala Ile Ile Lys Glu Ile Phe Lys Asp Ser Cys Ser Gln
        195                 200                 205
Lys Thr Glu Ile Leu Lys Gln Phe Leu Thr His Phe Asp Thr Ile Phe
    210                 215                 220
Glu Val Phe Tyr Asn Ser Leu Phe Ser Gln His Phe Glu Asn Cys Arg
225                 230                 235                 240
Asp Thr Ser Lys Ile Val Asn Ile Leu Met Cys Phe Leu Asp Leu Leu
                245                 250                 255
Glu Leu Leu Ile Ala Ser Arg Ile His Leu Lys Leu His Phe Thr Cys
            260                 265                 270
Gln Arg Ile Leu Phe Leu Lys Pro Ser Cys Met Leu Glu Val Ile Thr
        275                 280                 285
Trp Pro Ile Gln Ala Phe Val Lys Arg Lys Val Ile Ile Phe Leu Lys
    290                 295                 300
Lys Cys Leu Leu Cys Lys Val Gly Glu Asp Leu Cys Arg Gly Ser Val
305                 310                 315                 320
Pro Ala Leu Met Pro Pro Asp His His Val Ala Val Asp Met Leu Ala
                325                 330                 335
Leu Ala Asn Ala Val Leu Gln Ala Val Asn Ser Gly Leu Leu Lys Thr
            340                 345                 350
Leu Ser Val Tyr Glu Lys His Ser Phe Phe Gly Gly Asp Glu Val Gln
        355                 360                 365
Pro Glu Cys Glu Leu Ile Thr Ser Pro Asp His Val Ile Leu Arg Ala
    370                 375                 380
Ala Ser Leu Val Ile Met Lys Ser Leu Glu Ile Lys Phe Gln Asn Tyr
385                 390                 395                 400
Ser Ser Ala Ser Glu Met Lys Gly Ala
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<211> 1920
<212> DNA
<213> Homo sapiens

<400> 11665
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<212> DNA
<213> Homo sapiens

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<220>
<221> CDS
<222> (151)..(501)

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tt 1142

<210> 11667
<211> 117
<212> PRT
<213> Homo sapiens

<400> 11667
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20 25 30
Gly Pro Leu Thr Phe Arg Asp Val Val Ile Glu Phe Ser Gln Glu Glu
35 40 45
Trp Gln Cys Leu Asp Thr Ala Gln Gln Asp Leu Tyr Arg Lys Val Met
50 55 60
Leu Glu Asn Phe Arg Asn Leu Val Phe Leu Gly Ile Asp Val Ser Lys
65 70 75 80
Pro Asp Leu Ile Thr Cys Leu Glu Gln Gly Lys Asp Pro Trp Asn Met
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Pro Lys Val Ala Phe Thr Thr Lys Ile Tyr His Pro Asn Ile Asn Ser
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Asn Gly Ser Ile Cys Leu Asp Ile Leu Arg Ser Gln Trp Ser Pro Ala
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Leu Thr Val Ser Lys Val Leu Leu Ser Ile Cys Ser Leu Leu Cys Asp
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Ala Gln Met Thr Pro Ser Pro Ser Glu Met Phe Ile Pro Ala Asn Val
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245 250 255
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gcatggtttt gatgtaacca tccatgcttt tatttttgtt aagtcttttg tgactgggac 540
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gcatggatca caaaacaata taccctgtat ttcttacacg ccacttatat gcagcaagga 660
gtaaatgtgt tactagattc gggtagtgca ttttgtcact gaatctgacc ttgagaatgt 720
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cc 1262

<210> 11678
<211> 963
<212> DNA
<213> Homo sapiens

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<220>
<221> CDS
<222> (541)..(789)

<400> 11678
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agctttgtca ccgaggacga ggtcgagtgg atgagacaag ctggactact tactactgat 720
ccacgtgtga gggaacggaa gaagccaggc caagagggag cccgcagaaa gtttacgtgg 780
aagaaacgct aagggtttgc tcccaggaaa ggagaggaag agctatatat atgtgccgac 840
atgtggcaga cacacagtaa ataatggctg accagcatga gggcagtact gtcagaaatt 900
tctttgagct gtgagatgga tttatttta aatgctactt tgtaaaggtg acctttaaaa 960
aat 963

<210> 11679
<211> 83
<212> PRT
<213> Homo sapiens

<400> 11679
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20 25 30
Leu Ala Met Ala Lys Ala Leu Cys Ser Phe Val Thr Glu Asp Glu Val
35 40 45
Glu Trp Met Arg Gln Ala Gly Leu Leu Thr Thr Asp Pro Arg Val Arg
50 55 60
Glu Arg Lys Lys Pro Gly Gln Glu Gly Ala Arg Arg Lys Phe Thr Trp
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Lys Lys Arg

<210> 11680
<211> 2467
<212> DNA

<213> Homo sapiens

<220>
<221> CDS
<222> (27)..(2180)

<400> 11680
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catgtgctct tgctgaggac ccacaagaac ttcgagatgg attccaacat cctgctagac 180
ttgttaagtt tttagtgggc atgaaaggca aggatgaagc tatggccatt ggaggccact 240
ggtctccttc gttggatgga ccagacccag aaaaagatcc ctctgtgttg attaagactg 300
ctattcgttg ttgtaaggct ctgacaggca ttgatctaag tgtgtgcaca caatggtacc 360
gttttgcaga gattcgctac catcgccctg aggagaccca caaggggcgt acagttccag 420
ctcatgtgga gacagtggtt ttatttttcc cggatgtttg gcattgcctt cccacccgct 480
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aacgcaagga ggctgatgga gaacaggatg aagaagagaa ggatgatggt gaagctaaag 600
aaatttctac acctacccat tggtctaaac ttgatccaaa gacaatgaag gtaaatgacc 660
tccgaaaaga attagaaggt cgagctctta gttccaaagg attaaaatcc cagttaatag 720
cccgattgac aaaacagctt aaagtagagg aacaaaaaga agaacagaag gagttagaga 780
aatctgaaaa agaagaggat gaggatgatg ataggaaatc tgaagacgat aaagaggaag 840
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ctgatgaacc ggccatcatt gtacatccaa attgggctgc aaaaagtggc aagtttgatt 960
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catttgaggt ttcattgttt gcggaacttt tcaacgaaat gcttcaaaga gattttggtg 1080
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aaccaaaacc caaacggaga aaatcaggcg atgataaaga taaaaaagaa gatagagatg 1260
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tattacttcc aacaccaaca gtaaagcagg aatcaaagga tgtggaagaa aatgttggcc 1800
tcattgtgta caatggtgca atggtagatg taggaagcct cttgcaaaaa ttggaaaaga 1860
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gagaagttaa aaaggacctt agtcagttac aagaaaactt aaagatttca gaaaacatga 2040
gtttacaatt tgaaaaccaa atgaataaga caatcagaaa cttatctacg gtaatggatg 2100
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aggagaatgg tgccagtgta tgataaaatc catgtagtga tgaggaatgg tgttaaataa 2220
tgtaatatat aaaaatcatg atataagaat gtttgaaggt gatgcatgtt tgattttagt 2280
agtataaatg tattttagtt caaatgatgt ataaagtttt atgaatgtga gtttctgctt 2340
ttgaaaattg cttgtaattc ctagccttca aattattaaa cactccttga gtgaaataat 2400
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tcagttt 2467

<210> 11681
<211> 718
<212> PRT
<213> Homo sapiens

<400> 11681

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Met Ala Ile Leu Asp Pro Pro Asp Ala Asp His Leu Tyr Ser Ala Lys
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Val Met Leu Met Ala Ser Pro Ser Met Glu Asp Leu Tyr His Lys Ser
             20                  25                  30
Cys Ala Leu Ala Glu Asp Pro Gln Glu Leu Arg Asp Gly Phe Gln His
         35                  40                  45
Pro Ala Arg Leu Val Lys Phe Leu Val Gly Met Lys Gly Lys Asp Glu
     50                  55                  60
Ala Met Ala Ile Gly Gly His Trp Ser Pro Ser Leu Asp Gly Pro Asp
 65                  70                  75                  80
Pro Glu Lys Asp Pro Ser Val Leu Ile Lys Thr Ala Ile Arg Cys Cys
                 85                  90                  95
Lys Ala Leu Thr Gly Ile Asp Leu Ser Val Cys Thr Gln Trp Tyr Arg
            100                 105                 110
Phe Ala Glu Ile Arg Tyr His Arg Pro Glu Glu Thr His Lys Gly Arg
        115                 120                 125
Thr Val Pro Ala His Val Glu Thr Val Val Leu Phe Phe Pro Asp Val
    130                 135                 140
Trp His Cys Leu Pro Thr Arg Ser Glu Trp Glu Thr Leu Ser Arg Gly
145                 150                 155                 160
Tyr Lys Gln Gln Leu Val Glu Lys Leu Gln Gly Glu Arg Lys Glu Ala
                165                 170                 175
Asp Gly Glu Gln Asp Glu Glu Glu Lys Asp Asp Gly Glu Ala Lys Glu
            180                 185                 190
Ile Ser Thr Pro Thr His Trp Ser Lys Leu Asp Pro Lys Thr Met Lys
        195                 200                 205
Val Asn Asp Leu Arg Lys Glu Leu Glu Gly Arg Ala Leu Ser Ser Lys
    210                 215                 220
Gly Leu Lys Ser Gln Leu Ile Ala Arg Leu Thr Lys Gln Leu Lys Val
225                 230                 235                 240
Glu Glu Gln Lys Glu Glu Gln Lys Glu Leu Glu Lys Ser Glu Lys Glu
                245                 250                 255
Glu Asp Glu Asp Asp Asp Arg Lys Ser Glu Asp Asp Lys Glu Glu Glu
            260                 265                 270
Glu Arg Lys Arg Gln Glu Glu Ile Glu Arg Gln Arg Arg Glu Arg Arg
        275                 280                 285
Tyr Ile Leu Pro Asp Glu Pro Ala Ile Ile Val His Pro Asn Trp Ala
    290                 295                 300
Ala Lys Ser Gly Lys Phe Asp Cys Ser Ile Met Ser Leu Ser Val Leu
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0082750.6456

0020020-0050260

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305                 310                 315                 320
Leu Asp Tyr Arg Leu Glu Asp Asn Lys Glu His Ser Phe Glu Val Ser
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Leu Phe Ala Glu Leu Phe Asn Glu Met Leu Gln Arg Asp Phe Gly Val
            340                 345                 350
Arg Ile Tyr Lys Ser Leu Leu Ser Leu Pro Glu Lys Glu Asp Lys Lys
        355                 360                 365
Glu Lys Asp Lys Lys Ser Lys Lys Asp Glu Arg Lys Asp Lys Lys Glu
    370                 375                 380
Glu Arg Asp Asp Glu Thr Asp Glu Pro Lys Pro Lys Arg Arg Lys Ser
385                 390                 395                 400
Gly Asp Asp Lys Asp Lys Lys Glu Asp Arg Asp Glu Arg Lys Lys Glu
                405                 410                 415
Asp Lys Arg Lys Gly Asp Ser Lys Asp Asp Asp Glu Thr Glu Glu Asp
            420                 425                 430
Asn Asn Gln Asp Glu Tyr Asp Pro Met Glu Ala Glu Glu Ala Glu Asp
        435                 440                 445
Glu Glu Asp Asp Arg Asp Glu Glu Glu Met Thr Lys Arg Asp Asp Lys
    450                 455                 460
Arg Asp Ile Asn Arg Tyr Cys Lys Glu Arg Pro Ser Lys Asp Lys Glu
465                 470                 475                 480
Lys Glu Lys Thr Gln Met Ile Thr Ile Asn Arg Asp Leu Leu Met Ala
                485                 490                 495
Phe Val Tyr Phe Asp Gln Ser His Cys Gly Tyr Leu Leu Glu Lys Asp
            500                 505                 510
Leu Glu Glu Ile Leu Tyr Thr Leu Gly Leu His Leu Ser Arg Ala Gln
        515                 520                 525
Val Lys Lys Leu Leu Asn Lys Val Val Leu Arg Glu Ser Cys Phe Tyr
    530                 535                 540
Arg Lys Leu Thr Asp Thr Ser Lys Asp Glu Glu Asn His Glu Glu Ser
545                 550                 555                 560
Glu Ser Leu Gln Glu Asp Met Leu Gly Asn Arg Leu Leu Leu Pro Thr
                565                 570                 575
Pro Thr Val Lys Gln Glu Ser Lys Asp Val Glu Glu Asn Val Gly Leu
            580                 585                 590
Ile Val Tyr Asn Gly Ala Met Val Asp Val Gly Ser Leu Leu Gln Lys
        595                 600                 605
Leu Glu Lys Ser Glu Lys Val Arg Ala Glu Val Glu Gln Lys Leu Gln
    610                 615                 620
Leu Leu Glu Glu Lys Thr Asp Glu Asp Glu Lys Thr Ile Leu Asn Leu
625                 630                 635                 640
Glu Asn Ser Asn Lys Ser Leu Ser Gly Glu Leu Arg Glu Val Lys Lys
                645                 650                 655
Asp Leu Ser Gln Leu Gln Glu Asn Leu Lys Ile Ser Glu Asn Met Ser
            660                 665                 670
Leu Gln Phe Glu Asn Gln Met Asn Lys Thr Ile Arg Asn Leu Ser Thr
        675                 680                 685
Val Met Asp Glu Ile His Thr Val Leu Lys Lys Asp Asn Val Lys Asn
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    690                 695                 700
Glu Asp Lys Asp Gln Lys Ser Lys Glu Asn Gly Ala Ser Val
705                 710                 715
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<210> 11682
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (170)..(481)

<400> 11682
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gcccgagagc ggggacgagg aggtgtcggg cgcgggttcg agcccggtgt cgggcggcgt 120
gaacttgttc gccaacgacg gcagcttcct ggagctgttc aagcggaaga tggaggagga 180
gcagcggcag cggcaggagg agccgccccc gggtccgcag cgacccgacc agtcggccgc 240
cgccgctggc cccggggatc cgaagaggaa gggcggtccg ggctccacac ttagcttcgt 300
gggcaaacgc agaggcggga acaaactagc cctcaagacg ggaatagtag ccaagaagca 360
gaagacggag gatgaggtat taacaagtaa aggtgacgcg tgggccaagt acatggcaga 420
agtgaaaaag tacaaagctc accagtgcgg tgacgatgat aaaactcggc ccctggtgaa 480
atgacgcccc tcccccacct gcccatggcc tgggactctc tgcgatgtac ataactattt 540
aatgcagcgg cagcggcgac agccttccct gagaggactt aaaagcagaa ggaaaccgag 600
atgcttcccg cagccgtgga cgattctcca ggactctttt tttaccttga gcacttgcct 660
cgtgagactt catagaacag tggtttactg tccccccctt ctcacctcct cattctctct 720
ggctctttct gtcttcctct tctcaccctc ctccctcccc ttagccatca cttctgggaa 780
gtaaagaact tgacttagtg ccggaaaaaa aaaaaaaaac   820

<210> 11683
<211> 104
<212> PRT
<213> Homo sapiens

<400> 11683
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Met Glu Glu Glu Gln Arg Gln Arg Gln Glu Glu Pro Pro Pro Gly Pro
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Gln Arg Pro Asp Gln Ser Ala Ala Ala Ala Gly Pro Gly Asp Pro Lys
             20                  25                  30
Arg Lys Gly Gly Pro Gly Ser Thr Leu Ser Phe Val Gly Lys Arg Arg
         35                  40                  45
Gly Gly Asn Lys Leu Ala Leu Lys Thr Gly Ile Val Ala Lys Lys Gln
     50                  55                  60
Lys Thr Glu Asp Glu Val Leu Thr Ser Lys Gly Asp Ala Trp Ala Lys
 65                  70                  75                  80
Tyr Met Ala Glu Val Lys Lys Tyr Lys Ala His Gln Cys Gly Asp Asp
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0004204350

85 90 95
Asp Lys Thr Arg Pro Leu Val Lys
100

<210> 11684
<211> 912
<212> DNA
<213> Homo sapiens

<400> 11684
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caatgtttta cttggtacat aaatgctggt tttctttcag atttaaggac atacactttt 180
ttttttttt ttttaagaga cagggtcttc tatgttgccc aggctgtctt tgaactcctg 240
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cgtgcctggc tggacatgta aatttgaagt gaatggttaa acatccagct agctgaaagc 360
atggcagacc ctaacagaaa agctacagtg tgtttttgca gctatgaagt gaatggtttc 420
ctggggaaaa ttgtgacttt gtataactgt tgttgaaacc agaataaatt atatttcact 480
tgcatatgca taaattatta aaattttcag aagtcagtga tacagaagta ctattttgca 540
atgttaatct gtttgagtct ttggagaaag tggtttcatt gtaggtacat agtgcactgt 600
taatatttta aacaagtagt tcactcttcc atttaaggga tagcagttcc ttgtataaaa 660
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ctataatctc atatttatga tagttctgtt aggtgacagg accaaatgaa aatattttat 780
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<210> 11685
<211> 2040
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (151)..(1905)

<400> 11685
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gctgctaaag aggacatttg cactgatgcc atgcgtgaga actggatcag cctcagatat 180
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atgaaggagg gagtacagac atgtatgttt cctaaggaaa ctgacattaa aacttcagag 360
aacacagccg agttcaagga acgggagctc tgtccactga agacctccaa gaaactacct 420
gaaaaccatt taccaagaaa ctcacctcag taccaccagc cagacttgcc agaaatttcc 480
aggaaaaata atgggaataa ccagcaagta cctgtcaaga atgaagtaga tcattgtgaa 540

0004205950

aatttgaaga aggtggacac aaagccttct tcagaaaaga agattcacaa aacatctaga 600
gaagacatgt tttctgagaa acaggacata cctttcgtag agcaagaaga tccttatagg 660
aagaaaaagc ttcaggagaa aagagaagga aatttacaaa atttaaattg gggtaaaagt 720
cgaacatgta gaaagaacaa gaaaaggggt gttgctccag tctcaaggcc tcctgaacag 780
agtgatctaa agcttgtgtg cagtgacttt gagaggtctg agctgagcag tgacatcaat 840
gtaagaagct ggtgtataca ggaaagcact agggaggttt gtaaagcaga tgccgaaatt 900
gcaagcagtt tacctgctgc ccagagagag gcagaaggtt actaccagaa gcctgagaag 960
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aagaagccca tggtggacgc ccagcacttc ctgccggccg gagacagtgt ttcacaaaat 1140
gattttcctt ctgaagctcc catctccttg aatctttctc ataacatctg caatcccatg 1200
accgtgaata gtctcccaca atacgcagag ccttcctgtc ccagccttcc tgccgggccc 1260
acaggtgttg aagaagataa aggtctttac tcacctggag acctgtggcc cactccgcca 1320
gtgtgtgtga caagcagctt aaactgcacc ctggagaacg gcgtgccttg tgtgattcag 1380
gagtcagccc cggttcataa tagtttcatt gattggagtg caacatgcga aggccagttt 1440
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aactatgcca atggcttccc ctgtcctgca gatgttcaga cagactttat tgatcacaac 1560
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gcaaatttcc cactgtctag agactcgagt tactgtggga atgtgtgaaa ataattggat 1920
ttttaaacaa tgtgaataaa gaggcttgtg ttttgattac tagtgtaaac tggttattga 1980
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<210> 11686
<211> 585
<212> PRT
<213> Homo sapiens

<400> 11686
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20 25 30
Glu Asn Thr Leu Lys Asn Thr Ile Val Phe Ser Asn Pro Ser Ser Glu
35 40 45
Cys Ser Met Lys Glu Gly Val Gln Thr Cys Met Phe Pro Lys Glu Thr
50 55 60
Asp Ile Lys Thr Ser Glu Asn Thr Ala Glu Phe Lys Glu Arg Glu Leu
65 70 75 80
Cys Pro Leu Lys Thr Ser Lys Lys Leu Pro Glu Asn His Leu Pro Arg
85 90 95
Asn Ser Pro Gln Tyr His Gln Pro Asp Leu Pro Glu Ile Ser Arg Lys
100 105 110
Asn Asn Gly Asn Asn Gln Gln Val Pro Val Lys Asn Glu Val Asp His

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        115                 120                 125
Cys Glu Asn Leu Lys Lys Val Asp Thr Lys Pro Ser Ser Glu Lys Lys
    130                 135                 140
Ile His Lys Thr Ser Arg Glu Asp Met Phe Ser Glu Lys Gln Asp Ile
145                 150                 155                 160
Pro Phe Val Glu Gln Glu Asp Pro Tyr Arg Lys Lys Lys Leu Gln Glu
                165                 170                 175
Lys Arg Glu Gly Asn Leu Gln Asn Leu Asn Trp Gly Lys Ser Arg Thr
            180                 185                 190
Cys Arg Lys Asn Lys Lys Arg Gly Val Ala Pro Val Ser Arg Pro Pro
        195                 200                 205
Glu Gln Ser Asp Leu Lys Leu Val Cys Ser Asp Phe Glu Arg Ser Glu
    210                 215                 220
Leu Ser Ser Asp Ile Asn Val Arg Ser Trp Cys Ile Gln Glu Ser Thr
225                 230                 235                 240
Arg Glu Val Cys Lys Ala Asp Ala Glu Ile Ala Ser Ser Leu Pro Ala
                245                 250                 255
Ala Gln Arg Glu Ala Glu Gly Tyr Tyr Gln Lys Pro Glu Lys Lys Cys
            260                 265                 270
Val Asp Lys Phe Cys Ser Asp Ser Ser Ser Asp Cys Gly Ser Ser Ser
        275                 280                 285
Gly Ser Val Arg Ala Ser Arg Gly Ser Trp Gly Ser Trp Ser Ser Thr
    290                 295                 300
Ser Ser Ser Asp Gly Asp Lys Lys Pro Met Val Asp Ala Gln His Phe
305                 310                 315                 320
Leu Pro Ala Gly Asp Ser Val Ser Gln Asn Asp Phe Pro Ser Glu Ala
                325                 330                 335
Pro Ile Ser Leu Asn Leu Ser His Asn Ile Cys Asn Pro Met Thr Val
            340                 345                 350
Asn Ser Leu Pro Gln Tyr Ala Glu Pro Ser Cys Pro Ser Leu Pro Ala
        355                 360                 365
Gly Pro Thr Gly Val Glu Glu Asp Lys Gly Leu Tyr Ser Pro Gly Asp
    370                 375                 380
Leu Trp Pro Thr Pro Pro Val Cys Val Thr Ser Ser Leu Asn Cys Thr
385                 390                 395                 400
Leu Glu Asn Gly Val Pro Cys Val Ile Gln Glu Ser Ala Pro Val His
                405                 410                 415
Asn Ser Phe Ile Asp Trp Ser Ala Thr Cys Glu Gly Gln Phe Ser Ser
            420                 425                 430
Ala Tyr Cys Pro Leu Glu Leu Asn Asp Tyr Asn Ala Phe Pro Glu Glu
        435                 440                 445
Asn Met Asn Tyr Ala Asn Gly Phe Pro Cys Pro Ala Asp Val Gln Thr
    450                 455                 460
Asp Phe Ile Asp His Asn Ser Gln Ser Thr Trp Asn Thr Pro Pro Asn
465                 470                 475                 480
Met Pro Ala Ala Trp Gly His Ala Ser Phe Ile Ser Ser Pro Pro Tyr
                485                 490                 495
Leu Thr Ser Thr Arg Ser Leu Ser Pro Met Ser Gly Leu Phe Gly Ser
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0082030 6/6/2000

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            500                 505                 510
Ile Trp Ala Pro Gln Ser Asp Val Tyr Glu Asn Cys Cys Pro Ile Asn
        515                 520                 525
Pro Thr Thr Glu His Ser Thr His Met Glu Asn Gln Ala Val Val Cys
    530                 535                 540
Lys Glu Tyr Tyr Pro Gly Phe Asn Pro Phe Arg Ala Tyr Met Asn Leu
545                 550                 555                 560
Asp Ile Trp Thr Thr Thr Ala Asn Arg Asn Ala Asn Phe Pro Leu Ser
                565                 570                 575
Arg Asp Ser Ser Tyr Cys Gly Asn Val
            580                 585
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<212> DNA
<213> Homo sapiens

<220>
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<400> 11688

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<213> Homo sapiens

<400> 11690

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Gln	Leu	Asp	Glu	Leu	Ser	Arg	Gln	Arg	Ala	Leu	Cys	Arg	Gly	Gly	Arg
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Gln Gly Gly Val Pro Phe Ser Cys Val Ile Val Asp Glu Ala Gly Gln
325 330 335
Ser Cys Glu Ile Glu Thr Leu Thr Pro Leu Ile His Arg Cys Asn Lys
340 345 350
Leu Ile Leu Val Gly Asp Pro Lys Gln Leu Pro Pro Thr Val Ile Ser
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Tyr Ile Asn Val Gln Glu Ile Lys Leu Val Met Glu Ile Ile Lys Leu
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Pro Pro Val Arg Gly Glu Pro Pro Ala Ala Ser Pro Glu Ala Ser Thr
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<400> 11691

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Val Glu Ala Met Ala Asp Ala Gly Ile Leu Arg Leu Tyr Thr Trp Val

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<210> 11694
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<400> 11694

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Val	Pro	Lys	Gly	Tyr	Val	Ala	Lys	Ser	Pro	Asp	Glu	Ala	Tyr	Ala	Ile
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Ala	Gly	Gly	Arg	Gly	Lys	Gly	Thr	Phe	Glu	Ser	Gly	Leu	Lys	Gly	Gly
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Val	Lys	Ile	Val	Phe	Ser	Pro	Glu	Glu	Ala	Lys	Ala	Val	Ser	Ser	Gln
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Ile	Gly	Ser	Ser	His	Gly	Gly	Val	Asn	Ile	Glu	Asp	Val	Ala	Ala	Glu
				165					170					175	
Thr	Pro	Glu	Ala	Ile	Ile	Lys	Glu	Pro	Ile	Asp	Ile	Glu	Glu	Gly	Ile
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Lys	Lys	Glu	Gln	Ala	Leu	Gln	Leu	Ala	Gln	Lys	Met	Gly	Phe	Pro	Pro
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Asn	Ile	Val	Glu	Ser	Ala	Ala	Glu	Asn	Met	Val	Lys	Leu	Tyr	Ser	Leu
	210					215					220				
Phe	Leu	Lys	Tyr	Asp	Ala	Thr	Met	Ile	Glu	Ile	Asn	Pro	Met	Val	Glu
225					230					235					240
Asp	Ser	Asp	Gly	Ala	Val	Leu	Cys	Met	Asp	Ala	Lys	Ile	Asn	Phe	Asp
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Ser	Asn	Ser	Ala	Tyr	Arg	Gln	Lys	Lys	Ile	Phe	Asp	Leu	Gln	Asp	Trp
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CO2007/050360

Thr Gln Glu Asp Glu Arg Asp Lys Asp Ala Ala Lys Ala Asn Leu Asn
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290 295 300
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305 310 315 320
Ala Asn Phe Leu Asp Val Gly Gly Gly Ala Thr Val His Gln Val Thr
325 330 335
Glu Ala Phe Lys Leu Ile Thr Ser Asp Lys Lys Val Leu Ala Ile Leu
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385 390 395 400
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<212> DNA
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<222> (63)..(797)

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CONFIDENTIAL

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<212> PRT
<213> Homo sapiens

<400> 11696

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			20					25					30		
Glu	Glu	Tyr	Glu	Trp	Cys	Gly	Gln	Lys	Arg	Ile	Arg	Ala	Thr	Thr	Leu
		35					40					45			
Leu	Glu	Gly	Gly	Phe	Arg	Gly	Ser	Gly	Phe	Ile	Met	Cys	Ser	Gly	Lys
	50					55					60				
Glu	Asn	Pro	Asp	Ser	Asp	Ala	Asp	Leu	Asp	Val	Asp	Gly	Asp	Asp	Thr
65					70					75					80
Leu	Glu	Tyr	Gly	Lys	Pro	Gln	Tyr	Thr	Glu	Ala	Asp	Val	Ile	Pro	Cys
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        115                 120                 125
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    130                 135                 140
Ser Lys Gln Glu Ala Met Gln Lys Thr Cys Lys Asn Ser Asp Ile Glu
145                 150                 155                 160
Lys Ile Thr Glu Asp Ser Ala Val Thr Thr Phe Glu Ala Leu Lys Ala
                165                 170                 175
Arg Val Arg Glu Leu Glu Arg Gln Leu Ser Arg Gly Asp Arg Tyr Lys
            180                 185                 190
Cys Leu Ile Cys Met Asp Ser Tyr Ser Met Pro Leu Thr Ser Ile Gln
        195                 200                 205
Cys Trp His Val His Cys Glu Glu Cys Trp Leu Arg Thr Leu Val Arg
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<212> DNA
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<212> PRT
<213> Homo sapiens

<400> 11698
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35 40 45
Lys Met Tyr Gly Asn Ala Trp Met Ser Arg Gln Lys Phe Ala Ala Val
50 55 60
Ala Gly Pro Ser Trp Arg Thr Ser Ala Arg Ala Met Gln Lys Gly Ile
65 70 75 80
Val Gly Pro Glu Leu Pro Arg Arg Val Pro Asn Gly Ala Leu Ser Ser
85 90 95

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Gly Ala Val Arg Arg Gly Pro Pro Ser Phe Arg Pro Gln His Gly Gly
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Ser Thr Asp Ser Leu His His Ala Pro Gly Lys Ala Ala Asp Thr Gln
        115                 120                 125
Cys Gln Ser Val Lys Ala Ala Arg Arg Glu Ala Val Pro Cys Lys Ala
    130                 135                 140
Thr Gly Ala Glu Leu Pro Lys Ala Met Gly Pro His Leu Leu His Gln
145                 150                 155                 160
Arg Asp Leu Asn Val Arg Pro Arg Val Lys Gly Asp His Phe Gly Ala
                165                 170                 175
Leu Lys Phe Asp Cys Pro Ala Gly Phe Trp Thr Cys Met Gly Pro Ala
            180                 185                 190
Ala Pro Leu Phe Trp Pro Met Ser Pro Ile Trp Asn Gly Cys Ile Tyr
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Pro Ile Pro Val Pro Leu Ser Tyr Leu Gly Ser Asn
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<212> DNA
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Cys Thr Glu Ser Pro Glu Leu Tyr Asp Trp Leu Tyr Leu Gly Phe Met
     50                  55                  60
Ala Met Leu Pro Leu Val Leu His Trp Phe Phe Ile Glu Trp Tyr Ser
 65                  70                  75                  80
Gly Lys Lys Ser Ser Ser Ala Leu Phe Gln His Ile Thr Ala Leu Phe
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Glu Cys Ser Met Ala Ala Ile Ile Thr Leu Leu Val Ser Asp Pro Val
            100                 105                 110
Gly Val Leu Tyr Ile Arg Ser Cys Arg Val Leu Met Leu Ser Asp Trp
        115                 120                 125
Tyr Thr Met Leu Tyr Asn Pro Ser Pro Asp Tyr Val Thr Thr Val His
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Cys Thr His Glu Ala Val Tyr Pro Leu Tyr Thr Ile Val Phe Ile Tyr
145                 150                 155                 160
Tyr Ala Phe Cys Leu Val Leu Met Met Leu Leu Arg Pro Leu Leu Val
                165                 170                 175
Lys Lys Ile Ala Cys Gly Leu Gly Lys Ser Asp Arg Phe Lys Ser Ile
            180                 185                 190
Tyr Ala Ala Leu Tyr Phe Phe Pro Ile Leu Thr Val Leu Gln Ala Val
        195                 200                 205
Gly Gly Gly Leu Leu Tyr Tyr Ala Phe Pro Tyr Ile Ile Leu Val Leu
    210                 215                 220
Ser Leu Val Thr Leu Ala Val Tyr Met Ser Ala Ser Glu Ile Glu Asn
225                 230                 235                 240
Cys Tyr Asp Leu Leu Val Arg Lys Lys Arg Leu Ile Val Leu Phe Ser
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His Trp Leu Leu His Ala Tyr Gly Ile Ile Ser Ile Ser Arg Val Asp
            260                 265                 270
Lys Leu Glu Gln Asp Leu Pro Leu Leu Ala Leu Val Pro Thr Pro Ala
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<213> Homo sapiens

<220>
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<211> 852
<212> PRT
<213> Homo sapiens

<400> 11702

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Asp	Glu	Gly	Phe	Ser	Asn	Leu	Leu	Phe	Val	Asp	Arg	Ile	Ile	Tyr	Ile
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Val	Lys	Val	Ile	Tyr	Ser	Phe	His	Thr	Leu	Ser	Phe	Lys	Glu	Ala	His
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Gly Leu Glu Thr Val Glu Met Met Glu Glu Ser Ser Gly Pro Tyr Ser
325 330 335
Asp Gly Thr Glu Asn Ser Gln Leu Asn Val Lys Ile Ser Gly Met Glu
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Arg Lys Ser Asn Gly Lys Arg Asp Ser Phe Leu Ala Gln Thr Lys Asn
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Lys Lys Glu Asn Met Lys Pro Ala Ala Lys Leu Lys Leu Glu Ser Ser
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Gln Tyr Ser Gln Glu Glu Pro Met Glu Ile Pro Thr Leu Thr Arg Lys
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Asp Ile Val Ile Pro Gln Asp Val Thr Glu Asp Cys Gly Met Ala Glu
485 490 495
His Leu Glu Lys Ser Ser Leu Ser Asn Asn Glu Cys Gly Ser Leu Asp
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Ser Arg Arg Ala Gly Lys Ala Glu Gln Thr Gly Asn Lys Arg Ser Lys
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0 0 9 2 5 6 5 0 . 0 5 6 5 0 9 2

Pro Leu Met Arg Ser Glu Pro Glu Lys Asn Thr Glu Glu Ser Val Glu
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Gly Ile Val Val Leu Glu Asn Asn Pro Pro Gly Leu Leu Asn Gln Thr
675 680 685
Glu Cys Val Ser Asp Asn Gln Val His Leu Ser Glu Ser Thr Met Glu
690 695 700
His Asp Asn Thr Lys Leu Lys Ala Ala Thr Val Glu Asn Ala Val Leu
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725 730 735
Ser Lys Glu Asn Thr Pro Pro Val Val Ile Ser Ala Asp Gln Met Val
740 745 750
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770 775 780
Gln Asp Lys Glu Asn Ser His Gln Lys Lys Glu Arg Arg Lys Glu Glu
785 790 795 800
Glu Lys Pro Leu Gln Lys Ser Pro Leu His Ile Lys Asp Asp Val Leu
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<212> DNA
<213> Homo sapiens

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<212> PRT
<213> Homo sapiens

<400> 11704
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0003703 05/20/98

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Pro Thr Gln Lys Gly Gly Thr Ile Ser Cys Tyr Arg Cys Gly Arg Trp
                 85                  90                  95
Asn Leu Trp Glu Ala Ser Phe Cys Gly Trp Cys Gly Ala Met Leu Gly
            100                 105                 110
Ile Pro Ala Gly Cys Ser Val Cys Pro Lys Cys Gly Ala Ser Asn His
        115                 120                 125
Leu Ser Ala Arg Phe Cys Gly Ser Cys Gly Ile Cys Val Lys Ser Leu
    130                 135                 140
Val Lys Leu Ser Leu Asp Arg Ser Leu Ala Leu Ala Ala Glu Glu Pro
145                 150                 155                 160
Arg Pro Phe Ser Glu Ser Leu Asn Ile Pro Leu Pro Arg Ser Asp Val
                165                 170                 175
Gly Thr Lys Arg Asp Ile Gly Thr Gln Thr Val Gly Leu Phe Tyr Pro
            180                 185                 190
Ser Gly Lys Leu Leu Ala Lys Lys Glu Gln Glu Leu Ala Ser Gln Lys
        195                 200                 205
Gln Arg Gln Glu Lys Met Ser Asp His Lys Pro Leu Leu Thr Ala Ile
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Ser Pro Gly Arg Gly Tyr Trp Arg Arg Gln Leu Asp His Ile Ser Ala
225                 230                 235                 240
His Leu Arg Cys Tyr Ala Gln Asn Asn Pro Glu Phe Arg Ala Leu Ile
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Ala Glu Pro Arg Met Gly Lys Leu Ile Ser Ala Thr Val His Glu Asp
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Gly Cys Glu Val Ser Ile Arg Leu Asn Tyr Ser Gln Val Ser Asn Lys
        275                 280                 285
Asn Leu Tyr Leu Asn Lys Ala Val Asn Phe Ser Asp His Leu Leu Ser
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Ser Ala Ala Glu Gly Asp Gly Gly Leu Cys Gly Ser Arg Ser Ser Trp
305                 310                 315                 320
Val Ser Asp Tyr Ser Gln Ser Thr Ser Asp Thr Ile Glu Lys Ile Lys
                325                 330                 335
Arg Ile Lys Asn Phe Lys Thr Lys Thr Phe Gln Glu Lys Lys Glu Gln
            340                 345                 350
Leu Ile Pro Glu Asn Arg Leu Leu Leu Lys Glu Val Gly Pro Thr Gly
        355                 360                 365
Glu Gly Arg Val Ser Val Ile Glu Gln Leu Leu Asp Glu Gly Ala Asp
    370                 375                 380
Pro Asn Cys Cys Asp Glu Asp Asn Arg Pro Val Ile Thr Val Ala Val
385                 390                 395                 400
Met Asn Lys His His Glu Ala Ile Pro Val Leu Val Gln Arg Gly Ala
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Asn Ile Asp Gln Gln Trp Gly Pro Leu Arg Asn Thr Ala Leu His Glu
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Tyr Asp Leu Ala Leu Asn Thr Gly Asp Asp Leu Val Thr Ser Leu Phe
465                 470                 475                 480
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<212> DNA
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<400> 11705

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<210> 11706
<211> 218
<212> PRT
<213> Homo sapiens

<400> 11706

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Val Leu Pro Gly Gly Asp Thr Tyr Met His Glu Gly Phe Glu Arg Ala
         35                  40                  45
Ser Glu Gln Ile Tyr Tyr Glu Asn Arg Gln Gly Tyr Arg Thr Ala Ser
     50                  55                  60
Val Ile Ile Ala Leu Thr Asp Gly Glu Leu His Glu Asp Leu Phe Phe
 65                  70                  75                  80
Tyr Ser Glu Arg Glu Ala Asn Arg Ser Arg Asp Leu Gly Ala Ile Val
                 85                  90                  95
Tyr Cys Val Gly Val Lys Asp Phe Asn Glu Thr Gln Leu Ala Arg Ile
            100                 105                 110
Ala Asp Ser Lys Asp His Val Phe Pro Val Asn Asp Gly Phe Gln Ala
        115                 120                 125
Leu Gln Gly Ile Ile His Ser Ile Leu Lys Lys Ser Cys Ile Glu Ile
    130                 135                 140
Leu Ala Ala Glu Pro Ser Thr Ile Cys Ala Gly Glu Ser Phe Gln Val
145                 150                 155                 160
Val Val Arg Gly Asn Gly Phe Arg His Ala Arg Asn Val Asp Arg Val
                165                 170                 175
Leu Cys Ser Phe Lys Ile Asn Asp Ser Val Thr Leu Ser Lys Ser Leu
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His Pro Cys Leu Pro Ala Arg Pro His Thr
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<212> DNA
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<220>
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<222> (259)..(1335)

<400> 11707

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<212> PRT
<213> Homo sapiens

<400> 11708

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         35                  40                  45
Ile Asp Ser Ser Val Thr Gly Val Gln Arg Phe Arg Asp Thr Leu Lys
     50                  55                  60
Ile Pro Tyr Lys Leu Glu Leu Lys Asn Glu Pro Gly Arg Thr Asp Leu
 65                  70                  75                  80
Lys His Ile Val Ile Asp Gly Ser Asn Val Ala Ile Thr His Gly Leu
                 85                  90                  95
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Trp Lys Leu Gly Asn Arg Asn Ile Thr Val Phe Val Pro Gln Trp Arg
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Thr Arg Arg Asp Pro Asn Val Thr Glu Gln His Phe Leu Thr Gln Leu
130 135 140
Gln Glu Leu Gly Ile Leu Ser Leu Thr Pro Ala Arg Met Val Phe Gly
145 150 155 160
Glu Arg Ile Ala Ser His Asp Asp Arg Phe Leu Leu His Leu Ala Asp
165 170 175
Lys Thr Gly Gly Ile Ile Val Thr Asn Asp Asn Phe Arg Glu Phe Val
180 185 190
Asn Glu Ser Val Ser Trp Arg Glu Ile Ile Thr Lys Arg Leu Leu Gln
195 200 205
Tyr Thr Phe Val Gly Asp Ile Phe Met Val Pro Asp Asp Pro Leu Gly
210 215 220
Arg Ser Gly Pro Arg Leu Glu Glu Phe Leu Gln Lys Glu Val Cys Leu
225 230 235 240
Arg Asp Met Gln Pro Leu Leu Ser Ala Leu Pro Asn Val Gly Met Phe
245 250 255
Asp Pro Ser Phe Arg Val Pro Gly Thr Gln Ala Ala Ser Thr Ser His
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Gln Pro Pro Thr Arg Ile Gln Gly Ala Pro Ser Ser His Trp Leu Pro
275 280 285
Gln Gln Pro His Phe Pro Leu Leu Pro Ala Leu Pro Ser Leu Gln Gln
290 295 300
Asn Leu Pro Met Pro Ala Gln Arg Ser Ser Ala Glu Thr Asn Glu Leu
305 310 315 320
Arg Glu Ala Leu Leu Lys Ile Phe Pro Asp Ser Glu Gln Arg Leu Lys
325 330 335
Ile Asp Gln Ile Leu Val Ala His Pro Tyr Met Lys Asp Leu Asn Ala
340 345 350
Leu Ser Ala Met Val Leu Asp
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<211> 1727
<212> DNA
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<222> (133)..(1725)

<400> 11709
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0062504.0002

0062307-960290

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atagttctgc ttgcaggatg ggcattgttc ttattccttg catataaagt ttccagaaca 420
gaccgagaat accaagaata caatccttat gaagtattaa atttggatcc tggagccaca 480
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cgctatagtg gagaccagat tctaatacgc acaacacaga tttatacata ctttgtttat 840
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<213> Homo sapiens

<400> 11710

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             20                  25                  30
Tyr Leu Trp Pro Arg Asp Gln Asn Ala Glu Gln Ile Arg Leu Lys Asn
         35                  40                  45
Ile Arg Lys Val Tyr Gly Arg Cys Met Trp Tyr Arg Leu Arg Leu Leu
     50                  55                  60
Lys Pro Gln Pro Asn Ile Ile Pro Thr Val Lys Lys Ile Val Leu Leu
 65                  70                  75                  80
Ala Gly Trp Ala Leu Phe Leu Phe Leu Ala Tyr Lys Val Ser Arg Thr
                 85                  90                  95
Asp Arg Glu Tyr Gln Glu Tyr Asn Pro Tyr Glu Val Leu Asn Leu Asp
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0082704-050403

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Leu Lys Tyr His Pro Asp Lys Gly Gly Asp Glu Val Met Phe Met Arg
    130                 135                 140
Ile Ala Lys Ala Tyr Ala Ala Leu Thr Asp Glu Glu Ser Arg Lys Asn
145                 150                 155                 160
Trp Glu Glu Phe Gly Asn Pro Asp Gly Pro Gln Ala Thr Ser Phe Gly
                165                 170                 175
Ile Ala Leu Pro Ala Trp Ile Val Asp Gln Lys Asn Ser Ile Leu Val
            180                 185                 190
Leu Leu Val Tyr Gly Leu Ala Phe Met Val Ile Pro Pro Val Val Val
        195                 200                 205
Gly Ser Trp Trp Tyr Arg Ser Ile Arg Tyr Ser Gly Asp Gln Ile Leu
    210                 215                 220
Ile Arg Thr Thr Gln Ile Tyr Thr Tyr Phe Val Tyr Lys Thr Arg Asn
225                 230                 235                 240
Met Asp Met Lys Arg Leu Ile Met Val Leu Ala Gly Ala Ser Glu Phe
                245                 250                 255
Asp Pro Gln Tyr Asn Lys Asp Ala Thr Ser Arg Pro Thr Asp Asn Ile
            260                 265                 270
Leu Ile Pro Gln Leu Ile Arg Glu Ile Gly Ser Ile Asn Leu Lys Lys
        275                 280                 285
Asn Glu Pro Pro Leu Thr Cys Pro Tyr Ser Leu Lys Ala Arg Val Leu
    290                 295                 300
Leu Leu Ser His Leu Ala Arg Met Lys Ile Pro Glu Thr Leu Glu Glu
305                 310                 315                 320
Asp Gln Gln Phe Met Leu Lys Lys Cys Pro Ala Leu Leu Gln Glu Met
                325                 330                 335
Val Asn Val Ile Cys Gln Leu Ile Val Met Ala Arg Asn Arg Glu Glu
            340                 345                 350
Arg Glu Phe Arg Ala Pro Thr Leu Ala Ser Leu Glu Asn Cys Met Lys
        355                 360                 365
Leu Ser Gln Met Ala Val Gln Gly Leu Gln Gln Phe Lys Ser Pro Leu
    370                 375                 380
Leu Gln Leu Pro His Ile Glu Glu Asp Asn Leu Arg Arg Val Ser Asn
385                 390                 395                 400
His Lys Lys Tyr Lys Ile Lys Thr Ile Gln Asp Leu Val Ser Leu Lys
                405                 410                 415
Glu Ser Asp Arg His Thr Leu Leu His Phe Leu Glu Asp Glu Lys Tyr
            420                 425                 430
Glu Glu Val Met Ala Val Leu Gly Ser Phe Pro Tyr Val Thr Met Asp
        435                 440                 445
Ile Lys Ser Gln Val Leu Asp Asp Glu Asp Ser Asn Asn Ile Thr Val
    450                 455                 460
Gly Ser Leu Val Thr Val Leu Val Lys Leu Thr Arg Gln Thr Met Ala
465                 470                 475                 480
Glu Val Phe Glu Lys Glu Gln Ser Ile Cys Ala Ala Glu Glu Gln Pro
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                485                 490                 495
Ala Glu Asp Gly Gln Gly Glu Thr Asn Lys Asn Arg Thr Lys Gly Gly
            500                 505                 510
Trp Gln Gln Lys Ser Lys Gly Pro Lys Lys Thr Ala Lys Ser Lys Lys
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Lys Lys Pro
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (164)..(769)

<400> 11711

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gctgaacgtg gcggtcctgg agaacccgag ccctttccac agcccttcc ggttcgagat 240
cagcttcgag tgcagtgaag ccctggcgga cgacctggag tggaagatca tttatgttgg 300
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gactgatgcc gtgggtgtga ctgtggtcct catcacctgc acctaccatg gacaggagtt 480
catccgagtg ggctactacg tcaacaacga gtacctcaac cctgagctgc gtgagaaccc 540
gcccatgaag ccagatttct cccagctcca gcggaacatc ttggcctcga acccccgggt 600
gacccgcttc catatcaact gggacaacaa catggacagg ctggaggcca tagagaccca 660
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0098250.0950

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<211> 202
<212> PRT
<213> Homo sapiens

<400> 11712
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35 40 45
Glu Ser Glu Glu Phe Asp Gln Ile Leu Asp Ser Val Leu Val Gly Pro
50 55 60
Val Pro Ala Gly Arg His Met Phe Val Phe Gln Ala Asp Ala Pro Asn
65 70 75 80
Pro Ser Leu Ile Pro Glu Thr Asp Ala Val Gly Val Thr Val Val Leu
85 90 95
Ile Thr Cys Thr Tyr His Gly Gln Glu Phe Ile Arg Val Gly Tyr Tyr
100 105 110
Val Asn Asn Glu Tyr Leu Asn Pro Glu Leu Arg Glu Asn Pro Pro Met
115 120 125
Lys Pro Asp Phe Ser Gln Leu Gln Arg Asn Ile Leu Ala Ser Asn Pro
130 135 140
Arg Val Thr Arg Phe His Ile Asn Trp Asp Asn Asn Met Asp Arg Leu
145 150 155 160
Glu Ala Ile Glu Thr Gln Asp Pro Ser Leu Gly Cys Gly Leu Pro Leu
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Asn Cys Thr Pro Ile Lys Gly Leu Gly Leu Pro Gly Cys Ile Pro Gly
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Leu Leu Pro Glu Asn Ser Met Asp Cys Ile
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<210> 11713
<211> 2753
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (72)..(2081)

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tgttgggcag aatgtcacac ctgccgatga aactcctgcg taagaagatc gagaagcgga 120

acctcaaatt gcggcagcgg aacctaaagt ttcagggggc ctcaaatctg accctatcgg 180
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cagtgggaaa tataaaagtt acaaagtctc cccagaaatc cactgtatta accaatggag 360
aagcagcaat gcagtcttcc aattcagaat caaaaaagaa aaagaagaaa aagagaaaaa 420
tggtgaatga tgctgagcct gatacgaaaa aagcaaaaac tgaaaacaaa gggaaatctg 480
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<210> 11714
<211> 670

0082707-050200

<212> PRT
<213> Homo sapiens

<400> 11714

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             20                  25                  30
Leu Thr Leu Ser Glu Thr Gln Asn Gly Asp Val Ser Glu Glu Thr Met
         35                  40                  45
Gly Ser Arg Lys Val Lys Lys Ser Lys Gln Lys Pro Met Asn Val Gly
     50                  55                  60
Leu Ser Glu Thr Gln Asn Gly Gly Met Ser Gln Glu Ala Val Gly Asn
 65                  70                  75                  80
Ile Lys Val Thr Lys Ser Pro Gln Lys Ser Thr Val Leu Thr Asn Gly
                 85                  90                  95
Glu Ala Ala Met Gln Ser Ser Asn Ser Glu Ser Lys Lys Lys Lys Lys
            100                 105                 110
Lys Lys Arg Lys Met Val Asn Asp Ala Glu Pro Asp Thr Lys Lys Ala
        115                 120                 125
Lys Thr Glu Asn Lys Gly Lys Ser Glu Glu Glu Ser Ala Glu Thr Thr
    130                 135                 140
Lys Glu Thr Glu Asn Asn Val Glu Lys Pro Asp Asn Asp Glu Asp Glu
145                 150                 155                 160
Ser Glu Val Pro Ser Leu Pro Leu Gly Leu Thr Gly Ala Phe Glu Asp
                165                 170                 175
Thr Ser Phe Ala Ser Leu Cys Asn Leu Val Asn Glu Asn Thr Leu Lys
            180                 185                 190
Ala Ile Lys Glu Met Gly Phe Thr Asn Met Thr Glu Ile Gln His Lys
        195                 200                 205
Ser Ile Arg Pro Leu Leu Glu Gly Arg Asp Leu Leu Ala Ala Ala Lys
    210                 215                 220
Thr Gly Ser Gly Lys Thr Leu Ala Phe Leu Ile Pro Ala Val Glu Leu
225                 230                 235                 240
Ile Val Lys Leu Arg Phe Met Thr Arg Asn Gly Thr Gly Val Leu Ile
                245                 250                 255
Leu Ser Pro Thr Arg Glu Leu Ala Met Gln Thr Phe Gly Val Leu Lys
            260                 265                 270
Glu Leu Met Thr His His Val His Thr Tyr Gly Leu Ile Met Gly Gly
        275                 280                 285
Ser Asn Arg Ser Ala Glu Ala Gln Lys Leu Gly Asn Gly Ile Asn Ile
    290                 295                 300
Ile Val Ala Thr Pro Gly Arg Leu Leu Asp His Met Gln Asn Thr Pro
305                 310                 315                 320
Gly Phe Met Tyr Lys Asn Leu Gln Cys Leu Val Ile Asp Glu Ala Asp
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Arg Ile Leu Asp Val Gly Phe Glu Glu Glu Leu Lys Gln Ile Ile Lys
            340                 345                 350
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0068270 6546250

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Arg Lys Val Glu Asp Leu Ala Arg Ile Ser Leu Lys Lys Glu Pro Leu
    370                 375                 380
Tyr Val Gly Val Asp Asp Asp Lys Ala Asn Ala Thr Val Asp Gly Leu
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Glu Gln Gly Tyr Val Val Cys Pro Ser Glu Lys Arg Phe Leu Leu Leu
                405                 410                 415
Phe Thr Phe Leu Lys Lys Asn Arg Lys Lys Lys Leu Met Val Phe Phe
            420                 425                 430
Ser Ser Cys Met Ser Val Lys Tyr His Tyr Glu Leu Leu Asn Tyr Ile
        435                 440                 445
Asp Leu Pro Val Leu Ala Ile His Gly Lys Gln Lys Gln Asn Lys Arg
    450                 455                 460
Thr Thr Thr Phe Phe Gln Phe Cys Asn Ala Asp Ser Gly Thr Leu Leu
465                 470                 475                 480
Cys Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Pro Glu Val Asp Trp
                485                 490                 495
Ile Val Gln Tyr Asp Pro Pro Asp Asp Pro Lys Glu Tyr Ile His Arg
            500                 505                 510
Val Gly Arg Thr Ala Arg Gly Leu Asn Gly Arg Gly His Ala Leu Leu
        515                 520                 525
Ile Leu Arg Pro Glu Glu Leu Gly Phe Leu Arg Tyr Leu Lys Gln Ser
    530                 535                 540
Lys Val Pro Leu Ser Glu Phe Asp Phe Ser Trp Ser Lys Ile Ser Asp
545                 550                 555                 560
Ile Gln Ser Gln Leu Glu Lys Leu Ile Glu Lys Asn Tyr Phe Leu His
                565                 570                 575
Lys Ser Ala Gln Glu Ala Tyr Lys Ser Tyr Ile Arg Ala Tyr Asp Ser
            580                 585                 590
His Ser Leu Lys Gln Ile Phe Asn Val Asn Asn Leu Asn Leu Pro Gln
        595                 600                 605
Val Ala Leu Ser Phe Gly Phe Lys Val Pro Pro Phe Val Asp Leu Asn
    610                 615                 620
Val Asn Ser Asn Glu Gly Lys Gln Lys Lys Arg Gly Gly Gly Gly Gly
625                 630                 635                 640
Phe Gly Tyr Gln Lys Thr Lys Lys Val Glu Lys Ser Lys Ile Phe Lys
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<210> 11715
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<212> DNA
<213> Homo sapiens

<220>

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<221> CDS
<222> (301)..(1515)

<400> 11715
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<400> 11716

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65                  70                  75                  80
Ser Lys Gly Ser Val Thr Leu Ser Glu Ile Arg Leu Pro Leu Lys Ala
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Asp Phe Val Cys Ser Thr Val Gln Lys Pro Asp Ala Ala Asn Tyr Tyr
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Tyr Leu Ile Ile Leu Lys Ala Gly Ala Glu Asn Met Val Ala Thr Pro
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Lys Lys Lys Thr Ser Lys Ser Lys Ala Ile Thr Pro Lys Arg Leu Leu
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Thr Ser Ile Thr Thr Lys Ser Asn Ile His Ser Ser Val Met Ala Ser
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Ile Phe Glu Asp Val Ser Gly Phe Gly Ala Trp His Arg Arg Trp Cys
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Lys Arg Lys Asn Pro Ile Gly Arg Ile Asn Leu Ala Asn Cys Thr Ser
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Ile Met Gln Ser Glu Met Arg Glu Arg Gln Met Ala Met Gln Ile Ala
35 40 45
Trp Ser Arg Glu Phe Leu Lys Tyr Phe Gly Thr Phe Phe Gly Leu Ala
50 55 60
Ala Ile Ser Leu Thr Ala Gly Ala Ile Lys Lys Lys Lys Pro Ala Phe
65 70 75 80
Leu Val Pro Ile Val Pro Leu Ser Phe Ile Leu Thr Tyr Gln Tyr Asp
85 90 95
Leu Gly Tyr Gly Thr Leu Leu Glu Arg Met Lys Gly Glu Ala Glu Asp
100 105 110
Ile Leu Glu Thr Glu Lys Ser Lys Leu Gln Leu Pro Arg Gly Met Ile
115 120 125
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130 135 140
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<212> DNA
<213> Homo sapiens

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<222> (74)..(1444)

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<211> 457
<212> PRT
<213> Homo sapiens

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Ala Thr Thr Pro Leu Asp Pro Arg Val Leu Asp Ala Met Leu Pro Tyr
65                  70                  75                  80
Leu Ile Asn Tyr Tyr Gly Asn Pro His Ser Arg Thr His Ala Tyr Gly
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145                 150                 155                 160
Asp Ser Cys Arg Ser Leu Glu Ala Glu Gly Phe Gln Val Thr Tyr Leu
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Pro Val Gln Lys Ser Gly Ile Ile Asp Leu Lys Glu Leu Glu Ala Ala
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        195                 200                 205
Ile Gly Val Lys Gln Pro Ile Ala Glu Ile Gly Arg Ile Cys Ser Ser
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Arg Lys Val Tyr Phe His Thr Asp Ala Ala Gln Ala Val Gly Lys Ile
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Pro Leu Asp Val Asn Asp Met Lys Ile Asp Leu Met Ser Ile Ser Gly
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His Lys Ile Tyr Gly Pro Lys Gly Val Gly Ala Ile Tyr Ile Arg Arg
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Cys Ile Asn Leu Ser Phe Ala Tyr Val Glu Gly Glu Ser Leu Leu Met
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (21)..(1856)

<400> 11722

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<212> PRT
<213> Homo sapiens

<400> 11723

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Gln	Met	Asp	Val	Leu	Leu	Thr	Tyr	Leu	Pro	Lys	Asn	Tyr	Ala	Lys	Ser
	115					120					125				
Glu	Leu	Gly	Ala	Val	Ile	Phe	Trp	Gly	Gln	Asn	Gln	Thr	Leu	Asp	Pro
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145				150					155					160	
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			165					170					175		
Glu	Ser	Asn	Gln	Pro	Gln	Ile	Leu	Leu	Gly	Gly	Asn	Leu	Ser	Trp	His
		180					185					190			
Pro	Ala	Leu	Thr	Thr	Thr	Ser	Lys	Met	Arg	Ile	Pro	His	Ser	His	Ala
	195					200					205				
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305 310 315 320
Asp Glu Gln Gln Pro Thr Glu Ile Pro Ile Pro Ile Thr Leu His Ile
325 330 335
Gly Asp Tyr Asn Met Asp Gly Tyr Pro Asp Ala Leu Val Ile Leu Lys
340 345 350
Asn Thr Ser Gly Ser Asn Gln Gln Ala Phe Leu Leu Glu Asn Val Pro
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Cys Asn Asn Ala Ser Cys Glu Glu Ala Arg Arg Met Phe Lys Val Tyr
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Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr
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Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser
405 410 415
Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn
420 425 430
Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu
435 440 445
Cys Ser Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln
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Pro Gly Pro Tyr Ile Met Tyr Thr Thr Val Asp Ala Asn Gly Tyr Leu
465 470 475 480
Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala His Leu Ala Leu
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Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn Phe Leu
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Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu Lys Ser Ile
515 520 525
Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser Gln Leu Ile Val
530 535 540
Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp Ser Ala Lys Leu Tyr
545 550 555 560
Leu Thr Pro Ser Asn Ile Val Leu Leu Thr Ala Ile Ala Leu Ile Gly
565 570 575
Val Cys Val Phe Ile Leu Ala Ile Ile Gly Ile Leu His Trp Gln Glu
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Lys Lys Ala Asp Asp Arg Glu Lys Arg Gln Glu Ala His Arg Phe His
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Phe Asp Ala Met
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<211> 2968
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (136)..(1530)

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<212> PRT
<213> Homo sapiens

<400> 11725

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			20					25					30		
Ser	Gly	Ser	Thr	Gly	Leu	Pro	Lys	Gly	Val	Met	Ile	Ser	His	Ser	Asn
		35					40					45			
Ile	Ile	Ala	Gly	Ile	Thr	Gly	Met	Ala	Glu	Arg	Ile	Pro	Glu	Leu	Gly
	50					55					60				
Glu	Glu	Asp	Val	Tyr	Ile	Gly	Tyr	Leu	Pro	Leu	Ala	His	Val	Leu	Glu
65					70					75					80
Leu	Ser	Ala	Glu	Leu	Val	Cys	Leu	Ser	His	Gly	Cys	Arg	Ile	Gly	Tyr
				85					90					95	
Ser	Ser	Pro	Gln	Thr	Leu	Ala	Asp	Gln	Ser	Ser	Lys	Ile	Lys	Lys	Gly
			100					105					110		
Ser	Lys	Gly	Asp	Thr	Ser	Met	Leu	Lys	Pro	Thr	Leu	Met	Ala	Ala	Val
		115					120					125			
Pro	Glu	Ile	Met	Asp	Arg	Ile	Tyr	Lys	Asn	Val	Met	Asn	Lys	Val	Ser
	130					135					140				
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Lys	Met	Glu	Gln	Ile	Ser	Lys	Gly	Arg	Asn	Thr	Pro	Leu	Cys	Asp	Ser
				165					170					175	
Phe	Val	Phe	Arg	Lys	Val	Arg	Ser	Leu	Leu	Gly	Gly	Asn	Ile	Arg	Leu
			180					185					190		
Leu	Leu	Cys	Gly	Gly	Ala	Pro	Leu	Ser	Ala	Thr	Thr	Gln	Arg	Phe	Met
		195					200					205			

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0082708.0002

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                245                 250                 255
Glu Glu Gly Gly Tyr Phe Asn Thr Asp Lys Pro His Pro Arg Gly Glu
            260                 265                 270
Ile Leu Ile Gly Gly Gln Ser Val Thr Met Gly Tyr Tyr Lys Asn Glu
        275                 280                 285
Ala Lys Thr Lys Ala Asp Phe Phe Glu Asp Glu Asn Gly Gln Arg Trp
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Leu Cys Thr Gly Asp Ile Gly Glu Phe Glu Pro Asp Gly Cys Leu Lys
305                 310                 315                 320
Ile Ile Asp Arg Lys Lys Asp Leu Val Lys Leu Gln Ala Gly Glu Tyr
                325                 330                 335
Val Ser Leu Gly Lys Val Glu Ala Ala Leu Lys Asn Leu Pro Leu Val
            340                 345                 350
Asp Asn Ile Cys Ala Tyr Ala Asn Ser Tyr His Ser Tyr Val Ile Gly
        355                 360                 365
Phe Val Val Pro Asn Gln Lys Glu Leu Thr Glu Leu Ala Arg Lys Lys
    370                 375                 380
Gly Leu Lys Gly Thr Trp Glu Glu Leu Cys Asn Ser Cys Glu Met Glu
385                 390                 395                 400
Asn Glu Val Leu Lys Val Leu Ser Glu Ala Ala Ile Ser Ala Ser Leu
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Glu Lys Phe Glu Ile Pro Val Lys Ile Arg Leu Ser Pro Glu Pro Trp
            420                 425                 430
Thr Pro Glu Thr Gly Leu Val Thr Asp Ala Phe Lys Leu Lys Arg Lys
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<212> DNA
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<221> CDS
<222> (545)..(2263)

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gcaagacaca tcttcatcta ctacccattt agcacaacag ctcaagcagg aacgtcaaaa 300
agaactagca tgtcttcgtg gccgatttga caagggcaat atatggagtg cagaaaaagg 360
cggaaactca aaaagcaaac aactagaaac caaacaggaa actcactgtc agagcactcc 420
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tgatgtccta gaggaaggtg aactagatat ggagaagagc caagaggaga tggatcaagc 660
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<212> PRT
<213> Homo sapiens

<400> 11727

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         35                  40                  45
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     50                  55                  60
Thr Val Gly Val Val Ser Pro Glu Ser Ser Val Ser Thr Pro Arg Leu
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Glu Leu Lys Asp Thr Ser Arg Ser Asp Glu Ser Pro Lys Pro Gly Lys
                 85                  90                  95
Phe Gln Arg Thr Arg Val Pro Arg Ala Glu Ser Gly Asp Ser Leu Gly
            100                 105                 110
Ser Glu Asp Arg Asp Leu Leu Tyr Ser Ile Asp Ala Tyr Arg Ser Gln
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Arg Phe Lys Glu Thr Glu Arg Pro Ser Ile Lys Gln Val Ile Val Arg
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Lys Glu Asp Val Thr Ser Lys Leu Asp Glu Lys Asn Asn Ala Phe Pro
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Cys Gln Val Asn Ile Lys Gln Lys Met Gln Glu Leu Asn Asn Glu Ile
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Asn Met Gln Gln Thr Val Ile Tyr Gln Ala Ser Gln Ala Leu Asn Cys
            180                 185                 190
Cys Val Asp Glu Glu His Gly Lys Gly Ser Leu Glu Glu Ala Glu Ala
        195                 200                 205
Glu Arg Leu Leu Leu Ile Ala Thr Gly Lys Arg Thr Leu Leu Ile Asp
    210                 215                 220
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0060250-0060800

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Asn Gly Asp Ala Leu Thr Phe Thr Thr Thr Phe Thr Leu Gln Asp Val
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Ser Asn Asp Phe Glu Ile Asn Ile Glu Val Tyr Ser Leu Val Gln Lys
                325                 330                 335
Lys Asp Pro Ser Gly Leu Asp Lys Lys Lys Lys Thr Ser Lys Ser Lys
            340                 345                 350
Ala Ile Thr Pro Lys Arg Leu Leu Thr Ser Ile Thr Thr Lys Ser Asn
        355                 360                 365
Ile His Ser Ser Val Met Ala Ser Pro Gly Gly Leu Ser Ala Val Arg
    370                 375                 380
Thr Ser Asn Phe Ala Leu Val Gly Ser Tyr Thr Leu Ser Leu Ser Ser
385                 390                 395                 400
Val Gly Asn Thr Lys Phe Val Leu Asp Lys Val Pro Phe Leu Ser Ser
                405                 410                 415
Leu Glu Gly His Ile Tyr Leu Lys Ile Lys Cys Gln Val Asn Ser Ser
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Val Glu Glu Arg Gly Phe Leu Thr Ile Phe Glu Asp Val Ser Gly Phe
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Gly Ala Trp His Arg Arg Trp Cys Val Leu Ser Gly Asn Cys Ile Ser
    450                 455                 460
Tyr Trp Thr Tyr Pro Asp Asp Glu Lys Arg Lys Asn Pro Ile Gly Arg
465                 470                 475                 480
Ile Asn Leu Ala Asn Cys Thr Ser Arg Gln Ile Glu Pro Ala Asn Arg
                485                 490                 495
Glu Phe Cys Ala Arg Arg Asn Thr Phe Glu Leu Ile Thr Val Arg Pro
            500                 505                 510
Gln Arg Glu Asp Asp Arg Glu Thr Leu Val Ser Gln Cys Arg Asp Thr
        515                 520                 525
Leu Cys Val Thr Lys Asn Trp Leu Ser Ala Asp Thr Lys Glu Glu Arg
    530                 535                 540
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<212> DNA
<213> Homo sapiens

<220>

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<221> CDS
<222> (71)..(811)

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<211> 247
<212> PRT
<213> Homo sapiens

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35 40 45
Ala Thr Val Ala Ser Leu Leu Leu Arg Ile Gly Glu Val Gly Lys Lys
50 55 60
Phe Ser Ala Arg Thr Gly Arg Lys Pro Arg Asp Cys Ala Thr Glu Glu
65 70 75 80
Asp Glu Pro Pro Ala Pro Glu Leu His Gln Asp Ala Ala Arg Glu Leu
85 90 95
Gln Pro Pro Ala Ala Gly Asp Pro Gln Ala Lys Ala Gly Gly Asp Thr
100 105 110
Pro Leu Gly Thr Ala Pro Gln Glu Ser Gln Val Val Val Glu Gly Gly
115 120 125
Ser Gly Glu Gly Gln Gly Ser Pro Ser Gln Leu Leu Ser Asp Asp Glu
130 135 140
Thr Lys Asp Asp Met Ser Met Ser Ser Tyr Ser Val Val Ser Thr Gly
145 150 155 160
Ser Leu Gln Cys Glu Asp Leu Ala Asp Asp Thr Val Leu Val Gly Gly
165 170 175
Glu Ala Cys Ser Pro Thr Ala Arg Ile Gly Gly Thr Val Asp Thr Asp
180 185 190
Trp Cys Ile Ser Phe Glu Gln Ile Leu Ala Ser Ile Leu Thr Glu Ser
195 200 205
Val Leu Val Asn Phe Phe Glu Lys Arg Val Asp Ile Gly Leu Lys Ile
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<211> 2198
<212> DNA
<213> Homo sapiens

<220>
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<211> 223
<212> PRT
<213> Homo sapiens

<400> 11731
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20 25 30
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35 40 45

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Asn His Pro Ser Asn Lys Val Lys Ser Asp Pro Gln Lys Ala Val Asp
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Gln Pro Arg Gln Leu Phe Trp Glu Lys Lys Leu Ser Gly Leu Asn Ala
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Phe Asp Ile Ala Glu Glu Leu Val Lys Thr Met Asp Leu Pro Lys Gly
                 85                  90                  95
Leu Gln Gly Val Gly Pro Gly Cys Thr Asp Glu Thr Leu Leu Ser Ala
            100                 105                 110
Ile Ala Ser Ala Leu His Thr Ser Thr Met Pro Ile Thr Gly Gln Leu
        115                 120                 125
Ser Ala Ala Val Glu Lys Asn Pro Gly Val Trp Leu Asn Thr Thr Gln
    130                 135                 140
Pro Leu Cys Lys Ala Phe Met Val Thr Asp Glu Asp Ile Arg Lys Gln
145                 150                 155                 160
Glu Glu Leu Val Gln Gln Val Arg Lys Arg Leu Glu Glu Ala Leu Met
                165                 170                 175
Ala Asp Met Leu Ala His Val Glu Glu Leu Ala Arg Asp Gly Glu Ala
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Pro Leu Asp Lys Ala Cys Ala Glu Asp Asp Asp Glu Glu Asp Glu Glu
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Glu Glu Glu Glu Glu Pro Asp Pro Asp Pro Glu Met Glu His Val
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<210> 11732
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (140)..(1885)

<400> 11732

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DOCKET ALARM

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<210> 11733
<211> 582
<212> PRT
<213> Homo sapiens

<400> 11733
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20 25 30
Gly Lys Lys Ala Thr Ser Lys Val Pro Ser Ala Pro His Phe Val His
35 40 45
Pro Asn Asp His Ala Asn Arg Glu Ala Glu Leu Lys Lys Lys Trp Val
50 55 60
Glu Glu Met Arg Glu Lys Gln Gln Ala Ala Arg Glu Gln Glu Arg Gln
65 70 75 80
Lys Arg Arg Thr Ile Glu Ser Tyr Cys Gln Asp Val Leu Arg Arg Gln
85 90 95
Glu Glu Phe Glu His Lys Glu Glu Val Leu Gln Glu Leu Asn Met Phe
100 105 110

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Arg Lys Val Val Glu Tyr Ser Asp Val Ile Leu Glu Val Leu Asp Ala
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Arg Asp Pro Leu Gly Cys Arg Cys Phe Gln Met Glu Glu Ala Val Leu
145                 150                 155                 160
Arg Ala Gln Gly Asn Lys Lys Leu Val Leu Val Leu Asn Lys Ile Asp
                165                 170                 175
Leu Val Pro Lys Glu Val Val Glu Lys Trp Leu Asp Tyr Leu Arg Asn
            180                 185                 190
Glu Leu Pro Thr Val Ala Phe Lys Ala Ser Thr Gln His Gln Val Lys
        195                 200                 205
Asn Leu Asn Arg Cys Ser Val Pro Val Asp Gln Ala Ser Glu Ser Leu
    210                 215                 220
Leu Lys Ser Lys Ala Cys Phe Gly Ala Glu Asn Leu Met Arg Val Leu
225                 230                 235                 240
Gly Asn Tyr Cys Arg Leu Gly Glu Val Arg Thr His Ile Arg Val Gly
                245                 250                 255
Val Val Gly Leu Pro Asn Val Gly Lys Ser Ser Leu Ile Asn Ser Leu
            260                 265                 270
Lys Arg Ser Arg Ala Cys Ser Val Gly Ala Val Pro Gly Ile Thr Lys
        275                 280                 285
Phe Met Gln Glu Val Tyr Leu Asp Lys Phe Ile Arg Leu Leu Asp Ala
    290                 295                 300
Pro Gly Ile Val Pro Gly Pro Asn Ser Glu Val Gly Thr Ile Leu Arg
305                 310                 315                 320
Asn Cys Val His Val Gln Lys Leu Ala Asp Pro Val Thr Pro Val Glu
                325                 330                 335
Thr Ile Leu Gln Arg Cys Asn Leu Glu Glu Ile Ser Asn Tyr Tyr Gly
            340                 345                 350
Val Ser Gly Phe Gln Thr Thr Glu His Phe Leu Thr Ala Val Ala His
        355                 360                 365
Arg Leu Gly Lys Lys Lys Lys Gly Gly Leu Tyr Ser Gln Glu Gln Ala
    370                 375                 380
Ala Lys Ala Val Leu Ala Asp Trp Val Ser Gly Lys Ile Ser Phe Tyr
385                 390                 395                 400
Ile Pro Pro Pro Ala Thr His Thr Leu Pro Thr His Leu Ser Ala Glu
                405                 410                 415
Ile Val Lys Glu Met Thr Glu Val Phe Asp Ile Glu Asp Thr Glu Gln
            420                 425                 430
Ala Asn Glu Asp Thr Met Glu Cys Leu Ala Thr Gly Glu Ser Asp Glu
        435                 440                 445
Leu Leu Gly Asp Thr Asp Pro Leu Glu Met Glu Ile Lys Leu Leu His
    450                 455                 460
Ser Pro Met Thr Lys Ile Ala Asp Ala Ile Glu Asn Lys Thr Thr Val
465                 470                 475                 480
Tyr Lys Ile Gly Asp Leu Thr Gly Tyr Cys Thr Asn Pro Asn Arg His
                485                 490                 495
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Gln Met Gly Trp Ala Lys Arg Asn Val Asp His Arg Pro Lys Ser Asn
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Ser Met Val Asp Val Cys Ser Val Asp Arg Arg Ser Val Leu Gln Arg
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Ile Met Glu Thr Asp Pro Leu Gln Gln Gly Gln Ala Leu Ala Ser Ala
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Leu Lys Asn Lys Lys Lys Met Gln Lys Arg Ala Asp Lys Ile Ala Ser
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Lys Leu Ser Asp Ser Met Met Ser Ala Leu Asp Leu Ser Gly Asn Ala
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Asp Asp Gly Val Gly Asp
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<210> 11734
<211> 2328
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (309)..(1484)

<400> 11734
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<210> 11735
<211> 392
<212> PRT
<213> Homo sapiens

<400> 11735

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Asp	Arg	Val	Cys	Lys	Ser	His	Leu	Leu	Asn	Cys	Cys	Pro	His	Asp	Val
		35					40					45			
Leu	Ser	Gly	Thr	Arg	Met	Asp	Leu	Gly	Glu	Cys	Leu	Lys	Val	His	Asp
	50					55					60				
Leu	Ala	Leu	Arg	Ala	Asp	Tyr	Glu	Ile	Ala	Ser	Lys	Glu	Gln	Asp	Phe
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Phe	Phe	Glu	Leu	Asp	Ala	Met	Asp	His	Leu	Gln	Ser	Phe	Ile	Ala	Asp
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Cys	Asp	Arg	Arg	Thr	Glu	Val	Ala	Lys	Lys	Arg	Leu	Ala	Glu	Thr	Gln
			100					105					110		
Glu	Glu	Ile	Ser	Ala	Glu	Val	Ala	Ala	Lys	Ala	Glu	Arg	Val	His	Glu
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145					150					155					160
Lys	Ala	Arg	Ala	Lys	Lys	Arg	Glu	Ala	Glu	Glu	Val	Tyr	Arg	Asn	Ser
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225                 230                 235                 240
Gln Glu Arg Leu Lys Arg Arg Glu Glu Arg Glu Arg Glu Glu Arg Glu
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Lys Leu Arg Arg Ser Arg Ser His Ser Lys Asn Pro Lys Arg Ser Arg
            260                 265                 270
Ser Arg Glu His Arg Arg His Arg Ser Arg Ser Met Ser Arg Glu Arg
        275                 280                 285
Lys Arg Arg Thr Arg Ser Lys Ser Arg Glu Lys Arg His Arg His Arg
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Ser Arg Ser Ser Ser Arg Ser Arg Ser Arg Ser His Gln Arg Ser Arg
305                 310                 315                 320
His Ser Ser Arg Asp Arg Ser Arg Glu Arg Ser Lys Arg Arg Ser Ser
                325                 330                 335
Lys Glu Arg Phe Arg Asp Gln Asp Leu Ala Ser Cys Asp Arg Asp Arg
            340                 345                 350
Ser Ser Arg Asp Arg Ser Pro Arg Asp Arg Asp Arg Lys Asp Lys Lys
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<210> 11736
<211> 995
<212> DNA
<213> Homo sapiens

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<211> 609
<212> PRT
<213> Homo sapiens

<400> 11743

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			20					25					30		
Ser	Leu	Glu	Leu	Lys	Asp	Pro	Lys	Arg	Lys	Glu	Gly	Ala	Gly	Ser	Leu
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Ala	Arg	Phe	Asp	Phe	Lys	Lys	Cys	Lys	Leu	Leu	Tyr	Glu	Ser	Phe	Ser
	50					55					60				
Asn	Gln	Thr	Lys	Ser	Ile	Asn	Leu	Val	Ser	His	Ser	Met	Met	Ala	Phe
65					70					75					80
Asp	Thr	Arg	Tyr	Ala	Gly	Gln	Lys	Thr	Ser	Pro	Gly	Met	Thr	Asn	Val
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Phe	Ser	Cys	Ile	Phe	Gln	Pro	Ala	Lys	Asn	Ser	Ser	Thr	Thr	Gln	Gly
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Ser	Ile	Gln	Ile	Glu	Leu	His	Phe	Arg	Ser	Thr	Lys	Asp	Ser	Ser	Cys
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Phe	Thr	Val	Val	Leu	Asn	Asn	Leu	Arg	Val	Phe	Leu	Ile	Phe	Asp	Trp
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0088250-5465250

0088270 5+6 9 2 0 6 0

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Gln Asn His Val Thr Pro Ser Arg His Arg Asn Ser Ser Ser Glu Ser
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Ser Leu Pro Val Ser Asn Glu Arg His Leu Glu Val Lys Val Asn Val
        195                 200                 205
Thr Gly Thr Glu Phe Val Val Ile Glu Asp Val Ser Cys Phe Asp Thr
    210                 215                 220
Asn Ala Ile Ile Leu Lys Gly Thr Thr Val Leu Thr Tyr Lys Pro Arg
225                 230                 235                 240
Phe Val Asp Arg Pro Phe Ser Gly Ser Leu Phe Gly Ile Glu Val Phe
                245                 250                 255
Ser Cys Arg Leu Gly Asn Glu His Asp Thr Ala Leu Ser Ile Val Asp
            260                 265                 270
Pro Val Gln Ile Gln Met Glu Leu Val Gly Asn Ser Ser Tyr Gln Asn
        275                 280                 285
Ser Ser Gly Leu Met Asp Ala Phe Asn Ser Glu Asp Phe Pro Pro Val
    290                 295                 300
Leu Glu Ile Gln Leu Gln Ala Leu Asp Ile Arg Leu Ser Tyr Asn Gly
305                 310                 315                 320
Val Gln Leu Phe Leu Ala Ile Ala Lys Ser Ile Pro Glu Gln Ala Asn
                325                 330                 335
Ala Ala Val Pro Asp Ser Val Ala Leu Glu Ser Asp Ser Val Gly Thr
            340                 345                 350
Tyr Leu Pro Gly Ala Ser Arg Val Gly Glu Glu Ile Arg Glu Gly Thr
        355                 360                 365
Arg His Thr Leu Asp Pro Val Leu Glu Leu Gln Leu Ala Arg Leu Gln
    370                 375                 380
Glu Leu Gly Phe Ser Met Asp Asp Cys Arg Lys Ala Leu Leu Ala Cys
385                 390                 395                 400
Gln Gly Gln Leu Lys Lys Ala Ala Ser Trp Leu Phe Lys Asn Ala Glu
                405                 410                 415
Pro Leu Lys Ser Leu Ser Leu Ala Ser Thr Ser Arg Asp Ser Pro Gly
            420                 425                 430
Ala Val Ala Ala Pro Leu Ile Ser Gly Val Glu Ile Lys Ala Glu Ser
        435                 440                 445
Val Cys Ile Cys Phe Ile Asp Asp Cys Met Asp Cys Asp Val Pro Leu
    450                 455                 460
Ala Glu Leu Thr Phe Ser Arg Leu Asn Phe Leu Gln Arg Val Arg Thr
465                 470                 475                 480
Ser Pro Glu Gly Tyr Ala His Phe Thr Leu Ser Gly Asp Tyr Tyr Asn
                485                 490                 495
Arg Ala Leu Ser Gly Trp Glu Pro Phe Ile Glu Pro Trp Pro Cys Ser
            500                 505                 510
Val Ser Trp Gln Gln Gln Ala Ala Gly Arg Leu His Pro Pro Arg Leu
        515                 520                 525
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Lys Leu Glu Ala Lys Ala Lys Pro Arg Leu Asp Ile Asn Ile Thr Ser
530 535 540
Val Leu Ile Asp Gln Tyr Val Ser Thr Lys Glu Ser Trp Met Ala Asp
545 550 555 560
Tyr Cys Lys Asp Asp Lys Asp Ile Glu Ser Ala Lys Ser Glu Asp Trp
565 570 575
Met Gly Ser Ser Val Asp Pro Pro Cys Phe Gly Gln Ser Lys Ser Phe
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His Tyr Met Cys Leu Thr Lys Ser Leu Leu Thr Tyr Lys Ala Met Leu
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His

0003720.0950

<210> 11744
<211> 3389
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (33)..(1640)

<400> 11744
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0088240.6+6262.60

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ctatgaagaa gtagaaagtg agtcatgcac tagacagtgg gcctagctca tcagtggcta 3240
aagttgaaaa ggggttggtt tcctgtatat atatgtatgt atatacacac gtacatacat 3300
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<210> 11745
<211> 536
<212> PRT
<213> Homo sapiens

<400> 11745
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Phe Lys Phe Glu Ser Thr Asp Glu Asp Lys Arg Lys Lys Leu Cys Glu
35 40 45
Gly Ile Phe Lys Val Leu Ile Lys Asp Ile Pro Thr Thr Cys Gln Val

0003720.9450

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     50                  55                  60
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Val Pro Val Thr Thr Lys Glu Asn Met Gln Ile Leu Leu Arg Leu Ala
                 85                  90                  95
Lys Leu Asn Glu Leu Asp Asp Ser Leu Glu Lys Val Ser Glu Phe Pro
            100                 105                 110
Val Ile Val Glu Ser Leu Lys Cys Leu Cys Asn Ile Val Phe Asn Ser
        115                 120                 125
Gln Met Ala Gln Gln Leu Ser Leu Glu Leu Asn Leu Ala Ala Lys Leu
    130                 135                 140
Cys Asn Leu Leu Arg Lys Cys Lys Asp Arg Lys Phe Ile Asn Asp Ile
145                 150                 155                 160
Lys Cys Phe Asp Leu Arg Leu Leu Phe Leu Leu Ser Leu Leu His Thr
                165                 170                 175
Asp Ile Arg Ser Gln Leu Arg Tyr Glu Leu Gln Gly Leu Pro Leu Leu
            180                 185                 190
Thr Gln Ile Leu Glu Ser Ala Phe Ser Ile Lys Trp Thr Asp Glu Tyr
        195                 200                 205
Glu Ser Ala Ile Asp His Asn Gly Pro Pro Leu Ser Pro Gln Glu Thr
    210                 215                 220
Asp Cys Ala Ile Glu Ala Leu Lys Ala Leu Phe Asn Val Thr Val Asp
225                 230                 235                 240
Ser Trp Lys Val His Lys Glu Ser Asp Ser His Gln Phe Arg Val Met
                245                 250                 255
Ala Ala Val Leu Arg His Cys Leu Leu Ile Val Gly Pro Thr Glu Asp
            260                 265                 270
Lys Thr Glu Glu Leu His Ser Asn Ala Val Asn Leu Leu Ser Asn Val
        275                 280                 285
Pro Val Ser Cys Leu Asp Val Leu Ile Cys Pro Leu Thr His Glu Glu
    290                 295                 300
Thr Ala Gln Glu Ala Thr Thr Leu Asp Glu Leu Pro Ser Asn Lys Thr
305                 310                 315                 320
Ala Glu Lys Glu Thr Val Leu Lys Asn Asn Thr Met Val Tyr Asn Gly
                325                 330                 335
Met Asn Met Glu Ala Ile His Val Leu Leu Asn Phe Met Glu Lys Arg
            340                 345                 350
Ile Asp Lys Gly Ser Ser Tyr Arg Glu Gly Leu Thr Pro Val Leu Ser
        355                 360                 365
Leu Leu Thr Glu Cys Ser Arg Ala His Arg Asn Ile Arg Lys Phe Leu
    370                 375                 380
Lys Asp Gln Val Leu Pro Pro Leu Arg Asp Val Thr Asn Arg Pro Glu
385                 390                 395                 400
Val Gly Ser Thr Val Arg Asn Lys Leu Val Arg Leu Met Thr His Val
                405                 410                 415
Asp Leu Gly Val Lys Gln Ile Ala Ala Glu Phe Leu Phe Val Leu Cys
            420                 425                 430
Lys Glu Arg Val Asp Ser Leu Leu Lys Tyr Thr Gly Tyr Gly Asn Ala
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        435                 440                 445
Ala Gly Leu Leu Ala Ala Arg Gly Leu Leu Ala Gly Gly Arg Gly Asp
    450                 455                 460
Asn Trp Tyr Ser Glu Asp Glu Asp Thr Asp Thr Glu Glu Tyr Lys Asn
465                 470                 475                 480
Ala Lys Pro Asn Ile Asn Leu Ile Thr Gly His Leu Glu Glu Pro Met
                485                 490                 495
Pro Asn Pro Ile Asp Glu Met Thr Glu Glu Gln Lys Glu Tyr Glu Ala
            500                 505                 510
Met Lys Leu Val Asn Met Leu Asp Lys Leu Ser Arg Arg Ala Asp Val
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Lys Asp Leu His Gln Asp Gly Gly
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<210> 11746
<211> 1087
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (57)..(500)

<400> 11746
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agacccacca ggtccacgag tacctgcgca gcaagctctg ctctctctat gagaacgact 180
gcatctttga caagtttgag tgttgctgga acggttcgga tagcgccatc atgaccgggt 240
cctataacaa cttcttcagg atgtttgata gagacacgcg gagggatgtg accctggagg 300
cctcgagaga gagcagcaaa ccgcgcgcca gcctcaaacc ccggaaggtg tgtacggggg 360
gtaagcggag gaaagacgag atcagtgtgg acagtctgga cttcaacaag aagatcctgc 420
acacagcctg gcaccccgtg gacaatgtca ttgccgtggc tgccaccaat aacttgtaca 480
tattccagga caaaatcaac tagagacgcg aacgtgagga ccaagtcttg tcttgcatag 540
ttaagccgga cattttctg tcagagaaaa ggcatcattg tccgctccat taagaacagt 600
gacgcacctg ctacttccct tcacagacac aggagaaagc cgcctccgct ggaggcccgg 660
tgtggttccg cctcggcgag gcgcgagaca ggcgctgctg ctcacgtgga gacgctctcg 720
aagcagagtt gacggacact gctcccaaaa ggtcattact cagaataaat gtatttattt 780
cagtccgagc cttcctttcc aatttataga ccaaaaaatt aacatccaag agaaaagtta 840
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cactgcagcg tggtgtggcc accgtccgtg tcctctcggc cttcctccga gtccaggtgg 960
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<210> 11747
<211> 148

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<212> PRT
<213> Homo sapiens

<400> 11747

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             20                  25                  30
Lys Leu Cys Ser Leu Tyr Glu Asn Asp Cys Ile Phe Asp Lys Phe Glu
         35                  40                  45
Cys Cys Trp Asn Gly Ser Asp Ser Ala Ile Met Thr Gly Ser Tyr Asn
     50                  55                  60
Asn Phe Phe Arg Met Phe Asp Arg Asp Thr Arg Arg Asp Val Thr Leu
 65                  70                  75                  80
Glu Ala Ser Arg Glu Ser Ser Lys Pro Arg Ala Ser Leu Lys Pro Arg
                 85                  90                  95
Lys Val Cys Thr Gly Gly Lys Arg Arg Lys Asp Glu Ile Ser Val Asp
            100                 105                 110
Ser Leu Asp Phe Asn Lys Lys Ile Leu His Thr Ala Trp His Pro Val
        115                 120                 125
Asp Asn Val Ile Ala Val Ala Ala Thr Asn Asn Leu Tyr Ile Phe Gln
    130                 135                 140
Asp Lys Ile Asn
145
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<210> 11748
<211> 1877
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (223)..(1347)

<400> 11748

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gcccagcttg tctaccatca gagggagatc tctgcccccc ggggctgaga gaccccaacc 180
tttccccaag ctgaagctgc agggtattga ggtaccagcc agatgtcttc ccacaaagga 240
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<210> 11749
<211> 375
<212> PRT
<213> Homo sapiens

<400> 11749

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			20					25				30			
Leu	Leu	Glu	Glu	Lys	Gly	Lys	Arg	Val	Ile	Ala	Asn	Pro	Pro	Lys	Ala
		35					40					45			
Glu	Glu	Glu	Gln	Thr	Cys	Pro	Val	Pro	Gln	Glu	Glu	Glu	Glu	Glu	Val
	50					55					60				
Arg	Val	Leu	Thr	Leu	Pro	Leu	Gln	Ala	His	His	Ala	Met	Glu	Lys	Met
65					70					75					80
Glu	Glu	Phe	Val	Tyr	Lys	Val	Trp	Glu	Gly	Arg	Trp	Arg	Val	Ile	Pro
				85					90					95	
Tyr	Asp	Val	Leu	Pro	Asp	Trp	Leu	Lys	Asp	Asn	Asp	Tyr	Leu	Leu	His
			100					105					110		
Gly	His	Arg	Pro	Pro	Met	Pro	Ser	Phe	Arg	Ala	Cys	Phe	Lys	Ser	Ile
		115					120					125			
Phe	Arg	Ile	His	Thr	Glu	Thr	Gly	Asn	Ile	Trp	Thr	His	Leu	Leu	Gly
	130					135					140				
Phe	Val	Leu	Phe	Leu	Phe	Leu	Gly	Ile	Leu	Thr	Met	Leu	Arg	Pro	Asn
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Phe Leu Gly Ala Val Leu Trp Leu Ser Phe Ser Trp Leu Phe His Thr
            180                 185                 190
Val Tyr Cys His Ser Glu Lys Val Ser Arg Thr Phe Ser Lys Leu Asp
        195                 200                 205
Tyr Ser Gly Ile Ala Leu Leu Ile Met Gly Ser Phe Val Pro Trp Leu
    210                 215                 220
Tyr Tyr Ser Phe Tyr Cys Ser Pro Gln Pro Arg Leu Ile Tyr Leu Ser
225                 230                 235                 240
Ile Val Cys Val Leu Gly Ile Ser Ala Ile Ile Val Ala Gln Trp Asp
                245                 250                 255
Arg Phe Ala Thr Pro Lys His Arg Gln Thr Arg Ala Gly Val Phe Leu
            260                 265                 270
Gly Leu Gly Leu Ser Gly Val Val Pro Thr Met His Phe Thr Ile Ala
        275                 280                 285
Glu Gly Phe Val Lys Ala Thr Thr Val Gly Gln Met Gly Trp Phe Phe
    290                 295                 300
Leu Met Ala Val Met Tyr Ile Thr Gly Ala Gly Leu Tyr Ala Ala Arg
305                 310                 315                 320
Ile Pro Glu Arg Phe Phe Pro Gly Lys Phe Asp Ile Trp Phe Gln Ser
                325                 330                 335
His Gln Ile Phe His Val Leu Val Val Ala Ala Ala Phe Val His Phe
            340                 345                 350
Tyr Gly Val Ser Asn Leu Gln Glu Phe Arg Tyr Gly Leu Glu Gly Gly
        355                 360                 365
Cys Thr Asp Asp Thr Leu Leu
    370                 375
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<210> 11750
<211> 4266
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (337)..(3927)

<400> 11750

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ggtaaaaccc tgagtaaaag caagaagttg gagaatatga gatacatctc atctctagta 180
aatacttaaa tgacttcccc tcctcccgga gtcaagcaca attcggggat gcagtgacgg 240
acgtaggtga agacactgcg agaacttaca gacaaaactg gtttgtggcc tgtttgattc 300
ctgtcagagg tttgctgacc caagacagta tcgaaaatgc atattaagtc aattattcta 360
gagggattca agtcctatgc tcagaggacc gaagtcaatg gttttgaccc cctcttcaat 420
gctatcactg gcttaaatgg tagtgggaaa tccaacatat tggactccat ctgcttttg 480
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09/529,360

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Leu	Asn	Gly	Ser	Gly	Lys	Ser	Asn	Ile	Leu	Asp	Ser	Ile	Cys	Phe	Leu
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Leu	Gly	Ile	Ser	Asn	Leu	Ser	Gln	Val	Arg	Ala	Ser	Asn	Leu	Gln	Asp
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Leu	Val	Tyr	Lys	Asn	Gly	Gln	Ala	Gly	Ile	Thr	Lys	Ala	Ser	Val	Ser
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Ile	Thr	Phe	Asp	Asn	Ser	Asp	Lys	Lys	Gln	Ser	Pro	Leu	Gly	Phe	Glu
				85					90					95	
Val	His	Asp	Glu	Ile	Thr	Val	Thr	Arg	Gln	Val	Val	Ile	Gly	Gly	Arg
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Asn	Lys	Tyr	Leu	Ile	Asn	Gly	Val	Asn	Ala	Asn	Asn	Thr	Arg	Val	Gln
		115					120					125			
Asp	Leu	Phe	Cys	Ser	Val	Gly	Leu	Asn	Val	Asn	Asn	Pro	His	Phe	Leu
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Ile	Met	Gln	Gly	Arg	Ile	Thr	Lys	Val	Leu	Asn	Met	Lys	Pro	Pro	Glu
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Ile	Leu	Ser	Met	Ile	Glu	Glu	Ala	Ala	Gly	Thr	Arg	Met	Tyr	Glu	Tyr
				165					170					175	
Lys	Lys	Ile	Ala	Ala	Gln	Lys	Thr	Ile	Glu	Lys	Lys	Glu	Ala	Lys	Leu
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CO9852703A1

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Lys Leu Lys Glu Glu Arg Ser Ser Tyr Leu Glu Tyr Gln Lys Val Met
210 215 220
Arg Glu Ile Glu His Leu Ser Arg Leu Tyr Ile Ala Tyr Gln Phe Leu
225 230 235 240
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Gln Asp Lys Val Ile Lys Leu Gln Glu Glu Leu Ser Glu Ser Asp Lys
260 265 270
Lys Ile Lys Ala Leu Asn His Glu Ile Glu Glu Leu Glu Lys Arg Lys
275 280 285
Asp Lys Glu Thr Gly Gly Ile Leu Arg Ser Leu Glu Asp Ala Leu Ala
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Glu Ala Gln Arg Val Asn Thr Lys Ser Gln Ser Ala Phe Asp Leu Lys
305 310 315 320
Lys Lys Asn Leu Ala Cys Glu Glu Ser Lys Arg Lys Glu Leu Glu Lys
325 330 335
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Lys Lys Ile Thr Asp Gly Leu His Ala Leu Gln Glu Ala Ser Asn Lys
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Asp Ala Glu Ala Leu Ala Ala Ala Gln Gln His Phe Asn Ala Val Ser
370 375 380
Ala Gly Leu Ser Ser Asn Glu Asp Gly Ala Glu Ala Thr Leu Ala Gly
385 390 395 400
Gln Met Met Ala Cys Lys Asn Asp Ile Ser Lys Ala Gln Thr Glu Ala
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420 425 430
Lys Gln Ala Glu Val Lys Lys Met Asp Ser Gly Tyr Arg Lys Asp Gln
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Glu Ala Leu Glu Ala Val Lys Arg Leu Lys Glu Lys Leu Glu Ala Glu
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Phe Asp Lys Arg Ile Met Thr Arg Thr Val Thr Leu Gly Gly Asp Val
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Phe Asp Pro His Gly Thr Leu Ser Gly Gly Ala Arg Ser Gln Ala Ala
            660                 665                 670
Ser Ile Leu Thr Lys Phe Gln Glu Leu Lys Asp Val Gln Asp Glu Leu
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Arg Ile Lys Glu Asn Glu Leu Arg Ala Leu Glu Glu Glu Leu Ala Gly
    690                 695                 700
Leu Lys Asn Thr Ala Glu Lys Tyr Arg Gln Leu Lys Gln Gln Trp Glu
705                 710                 715                 720
Met Lys Thr Glu Glu Ala Asp Leu Leu Gln Thr Lys Leu Gln Gln Ser
                725                 730                 735
Ser Tyr His Lys Gln Gln Glu Glu Leu Asp Ala Leu Lys Lys Thr Ile
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Glu Glu Ser Glu Glu Thr Leu Lys Asn Thr Lys Glu Ile Gln Arg Lys
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Ala Glu Glu Lys Tyr Glu Val Leu Glu Asn Lys Met Lys Asn Ala Glu
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Ala Glu Arg Glu Arg Glu Leu Lys Asp Ala Gln Lys Lys Leu Asp Cys
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Ala Lys Val Ser Lys Met Leu Lys Asp Tyr Asp Trp Ile Asn Ala Glu
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Glu Ala Glu Glu Arg Tyr Asn Asp Leu Met Lys Lys Lys Arg Ile Val
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Glu Asn Asp Lys Ser Lys Ile Leu Thr Thr Ile Glu Asp Leu Asp Gln
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Lys Lys Asn Gln Ala Leu Asn Ile Ala Trp Gln Lys Val Asn Lys Asp
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Phe Gly Ser Ile Phe Ser Thr Leu Leu Pro Gly Ala Asn Ala Met Leu
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Ala Pro Pro Glu Gly Gln Thr Val Leu Asp Gly Leu Glu Phe Lys Val
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Ala Leu Gly Asn Thr Trp Lys Glu Asn Leu Thr Glu Leu Ser Gly Gly
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Gln Arg Ser Leu Val Ala Leu Ser Leu Ile Leu Ser Met Leu Leu Phe
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Leu Ser His Thr Gln Asn Ile Gly Gln Met Leu Arg Thr His Phe Thr
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His Ser Gln Phe Ile Val Val Ser Leu Lys Glu Gly Met Phe Asn Asn
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Ala Asn Val Leu Phe Lys Thr Lys Phe Val Asp Gly Val Ser Thr Val
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Leu Ala Ser Gln Asp Leu Ser Gly Asp Phe Lys Lys Pro Ala Leu Pro
65   70   75   80
Val Ser Pro Ala Ala Arg Ser Lys Ala Pro Ala Ser Ser Ser Ser Asn
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Pro Glu Glu Val Gln Lys Glu Gly Pro Thr Ala Leu Gln Asp Ser Asn
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Ser Gly Glu Pro Asp Ile Pro Pro Pro Gln Pro Asp Cys Gly Asp Phe
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Arg Ser Leu Gln Glu Glu Gln Ser Arg Pro Thr Thr Ala Val Ser Ser
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Pro Gly Gly Pro Ala Arg Ala Pro Pro Tyr Gln Glu Pro Pro Trp Gly
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Gly Pro Ala Thr Ala Pro Tyr Ser Leu Glu Thr Leu Lys Gly Gly Thr
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Ile Leu Gly Thr Arg Ser Leu Lys Gly Thr Ser Tyr Cys Leu Phe Gly
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Arg Leu Ser Gly Cys Asp Val Cys Leu Glu His Pro Ser Val Ser Arg
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Tyr His Ala Val Leu Gln His Arg Ala Ser Gly Pro Asp Gly Glu Cys
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Gly Thr Phe Leu Asn Lys Thr Arg Ile Pro Pro Arg Thr Tyr Cys Arg
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Val His Val Gly His Val Val Arg Phe Gly Gly Ser Thr Arg Leu Phe
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Ile Leu Gln Gly Pro Glu Glu Asp Arg Glu Ala Glu Ser Glu Leu Thr
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Val Thr Gln Leu Lys Glu Leu Arg Lys Gln Gln Gln Ile Leu Leu Glu
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Lys Lys Met Leu Arg Glu Asp Ser Asp Glu Glu Glu Glu Met Asp Thr
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Ser Glu Arg Lys Ile Asn Ala Gly Ser Gln Asp Asp Glu Met Gly Cys
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Thr Trp Gly Met Gly Glu Asp Ala Val Glu Asp Asp Ala Glu Glu Asn
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Val Arg Leu Pro Val Asp Asp Ser Thr Gly Lys Gln Leu Val Ala Glu
405 410 415
Ala Ile His Ser Gly Lys Lys Lys Glu Ala Met Ile Gln Cys Ser Leu
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Val Ser Arg Lys Arg Lys Ala Lys Asn Trp Glu Asp Glu Asp Phe Tyr
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Asp Ser Asp Asp Asp Thr Phe Leu Asp Arg Thr Gly Leu Ile Glu Lys
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Lys Arg Leu Asn Arg Met Lys Lys Ala Gly Lys Ile Asp Glu Lys Pro
485 490 495
Glu Thr Phe Glu Ser Leu Val Ala Lys Leu Asn Asp Ala Glu Arg Glu
500 505 510
Leu Ser Glu Ile Ser Glu Arg Leu Lys Ala Ser Ser Gln Val Leu Ser
515 520 525
Glu Ser Pro Ser Gln Asp Ser Leu Asp Ala Phe Met Ser Glu Met Lys
530 535 540
Ser Gly Ser Thr Leu Asp Gly Val Ser Arg Lys Lys Leu His Leu Arg
545 550 555 560
Thr Phe Glu Leu Arg Lys Glu Gln Gln Arg Leu Lys Gly Leu Ile Lys
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Ile Val Lys Pro Ala Glu Ile Pro Glu Leu Lys Lys Thr Glu Thr Gln
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595 600 605
Gly Ala Met Lys Gly Gly Ser Lys Phe Lys Leu Lys Thr Gly Thr Val
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Gly Lys Leu Pro Pro Lys Arg Pro Glu Leu Pro Pro Thr Leu Met Arg
625 630 635 640
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Glu Glu Lys Glu Lys Glu Glu His Glu Lys Lys Lys Leu Glu Asp Gly
660 665 670
Ser Leu Ser Arg Pro Gln Pro Glu Ile Glu Pro Glu Ala Ala Val Gln
675 680 685
Glu Met Arg Pro Pro Thr Asp Leu Thr His Phe Lys Glu Thr Gln Thr
690 695 700
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725 730 735

Lys Asn Glu Tyr Glu Lys Ser Arg Gly Glu Leu Lys Lys Lys Lys Thr
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Pro Gly Pro Gly Lys Leu Pro Pro Thr Leu Ser Ser Lys Tyr Pro Glu
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<222> (143)..(961)

<400> 11754
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<212> PRT
<213> Homo sapiens

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Asp Asn Lys Thr His Ser Glu Asn Leu Lys Gln Asp Ile Leu Tyr Leu
35 40 45
His Asn Ser Leu Glu Glu Val Asn Ser Ala Leu Val Gly Tyr Gln Arg
50 55 60
Gln Asn Asp Leu Lys Leu Glu Gly Met Asn Glu Thr Val Ser Asn Leu
65 70 75 80
Thr Gln Arg Val Asn Leu Ile Glu Ser Asp Val Val Ala Met Ser Lys
85 90 95
Val Glu Lys Lys Ala Asn Leu Pro Phe Ser Met Met Gly Asp Arg Ser
100 105 110
Ala Thr Leu Lys Arg Gln Ser Leu Asp Gln Val Thr Asn Arg Thr Asp
115 120 125
Thr Val Lys Ile Gln Ser Ile Lys Lys Glu Asp Ser Ser Asn Ser Gln
130 135 140
Val Ser Lys Leu Arg Glu Lys Leu Gln Leu Ile Ser Ala Leu Thr Asn
145 150 155 160

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Lys Pro Glu Ser Asn Arg Pro Pro Glu Thr Ala Asp Glu Glu Gln Val
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Glu Ser Phe Thr Ser Lys Pro Ser Ala Leu Pro Lys Phe Ser Gln Phe
180 185 190
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Pro Gly Val Ser Ser Thr Glu Asp Leu Gln Asp Leu Phe Arg Lys Thr
210 215 220
Gly Gln Asp Val Asp Gly Lys Leu Thr Tyr Gln Glu Ile Trp Thr Ser
225 230 235 240
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260 265 270
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<212> DNA
<213> Homo sapiens

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<222> (40)..(603)

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<212> PRT
<213> Homo sapiens

<400> 11757
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Arg His Glu Glu Phe Glu Glu Gly Cys Lys Ala Ala Cys Asn Gly Pro
35 40 45
Tyr Asp Gly Lys Trp Ser Lys Thr Met Val Gly Phe Gly Pro Glu Asp
50 55 60
Asp His Phe Val Ala Glu Leu Thr Tyr Asn Tyr Gly Val Gly Asp Tyr
65 70 75 80
Lys Leu Gly Asn Asp Phe Met Gly Ile Thr Leu Ala Ser Ser Gln Ala
85 90 95
Val Ser Asn Ala Arg Lys Leu Glu Trp Pro Leu Thr Glu Val Ala Glu
100 105 110

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Gly Val Phe Glu Thr Glu Ala Pro Gly Gly Tyr Lys Phe Tyr Leu Gln
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Asn Arg Ser Leu Pro Gln Ser Asp Pro Val Leu Lys Val Thr Leu Ala
    130                 135                 140
Val Ser Asp Leu Gln Lys Ser Leu Asn Tyr Trp Cys Asn Leu Leu Gly
145                 150                 155                 160
Met Lys Ile Tyr Glu Lys Asp Glu Glu Lys Gln Arg Ala Leu Leu Gly
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Tyr Ala Asp Asn Gln Val Ser Asn Leu Gly Glu Glu
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<210> 11758
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<212> DNA
<213> Homo sapiens

<400> 11758

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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (51)..(542)

<400> 11759
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gt 2282

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<212> PRT
<213> Homo sapiens

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35 40 45
Gly Gly Gly Met Glu Pro Glu Glu Glu Pro Gly Gly Ala Ala Val Arg
50 55 60
Glu Val Tyr Glu Glu Ala Gly Val Lys Gly Lys Leu Gly Arg Leu Leu
65 70 75 80
Gly Val Phe Glu Gln Asn Gln Asp Arg Lys His Arg Thr Tyr Val Tyr
85 90 95
Val Leu Thr Val Thr Glu Leu Leu Glu Asp Trp Glu Asp Ser Val Ser
100 105 110
Ile Gly Arg Lys Arg Glu Trp Phe Lys Val Glu Asp Ala Ile Lys Val
115 120 125
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<210> 11761
<211> 2862
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (142)..(1593)

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cacctacctg ctaactccag atattatttt taagttggag acctaaaaat aattctcttg 1860
tattttggag atgaagaaaa aagtcattca cctgggaggg atttttaaca aacatgcact 1920
aatattacct ccctcttcca aactcctact gtcctcacct cacccaccac tgtaaaagta 1980
ttacgtcgtg cattaaagac cagaaaagac ttgcttttac ccagggaggg gacattcccc 2040
caatcctgtg tctgggcagc ttgcctggtg gatgtttctg gccctttttc caccatggga 2100
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gaagggtggg gaggtgcaat gggatgggag gcaggatgct tgcccagaaa ggtgctttcc 2460
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<210> 11762
<211> 484
<212> PRT

DOCID: 0946250

<213> Homo sapiens

<400> 11762

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Tyr Ser Glu Ala Glu Ile Lys Val Arg Glu Ala Thr Ser Asn Asp Pro
             20                  25                  30
Trp Gly Pro Ser Ser Ser Leu Met Thr Glu Ile Ala Asp Leu Thr Tyr
         35                  40                  45
Asn Val Val Ala Phe Ser Glu Ile Met Ser Met Val Trp Lys Arg Leu
     50                  55                  60
Asn Asp His Gly Lys Asn Trp Arg His Val Tyr Lys Ala Leu Thr Leu
 65                  70                  75                  80
Leu Asp Tyr Leu Ile Lys Thr Gly Ser Glu Arg Val Ala Gln Gln Cys
                 85                  90                  95
Arg Glu Asn Ile Phe Ala Ile Gln Thr Leu Lys Asp Phe Gln Tyr Ile
            100                 105                 110
Asp Arg Asp Gly Lys Asp Gln Gly Ile Asn Val Arg Glu Lys Ser Lys
        115                 120                 125
Gln Leu Val Ala Leu Leu Lys Asp Glu Glu Arg Leu Lys Ala Glu Arg
    130                 135                 140
Ala Gln Ala Leu Lys Ala Lys Glu Arg Met Ala Gln Val Ala Thr Gly
145                 150                 155                 160
Met Gly Ser Asn Gln Ile Thr Phe Gly Arg Gly Ser Ser Gln Pro Asn
                165                 170                 175
Leu Ser Thr Ser His Ser Glu Gln Glu Tyr Gly Lys Ala Gly Gly Ser
            180                 185                 190
Pro Ala Ser Tyr His Gly Ser Pro Glu Ala Ser Leu Cys Pro Gln His
        195                 200                 205
Arg Thr Gly Ala Pro Leu Gly Gln Ser Glu Glu Leu Gln Pro Leu Ser
    210                 215                 220
Gln Arg His Pro Phe Leu Pro His Leu Gly Leu Ala Ser Arg Pro Asn
225                 230                 235                 240
Gly Asp Trp Ser Gln Pro Cys Leu Thr Cys Asp Arg Ala Ala Arg Ala
                245                 250                 255
Thr Ser Pro Arg Val Ser Ser Glu Leu Glu Gln Ala Arg Pro Gln Thr
            260                 265                 270
Ser Gly Glu Glu Glu Leu Gln Leu Gln Leu Ala Leu Ala Met Ser Arg
        275                 280                 285
Glu Val Ala Glu Gln Glu Glu Arg Leu Arg Arg Gly Asp Asp Leu Arg
    290                 295                 300
Leu Gln Met Ala Leu Glu Glu Ser Arg Arg Asp Thr Val Lys Ile Pro
305                 310                 315                 320
Lys Lys Lys Glu His Gly Ser Leu Pro Gln Gln Thr Thr Leu Leu Asp
                325                 330                 335
Leu Met Asp Ala Leu Pro Ser Ser Gly Pro Ala Ala Gln Lys Ala Glu
            340                 345                 350
Pro Trp Gly Pro Ser Ala Ser Thr Asn Gln Thr Asn Pro Trp Gly Gly
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0 5 0 2 0 5 6 0 0 . 0 2 0 0 0 0

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        355                 360                 365
Pro Ala Ala Pro Ala Ser Thr Ser Asp Pro Trp Pro Ser Phe Gly Thr
    370                 375                 380
Lys Pro Ala Ala Ser Ile Asp Pro Trp Gly Val Pro Thr Gly Ala Thr
385                 390                 395                 400
Ala Gln Ser Val Pro Lys Asn Ser Asp Pro Trp Ala Ala Ser Gln Gln
                405                 410                 415
Pro Ala Ser Ser Ala Gly Lys Arg Ala Ser Asp Ala Trp Gly Ala Val
            420                 425                 430
Ser Thr Thr Lys Pro Val Ser Val Ser Gly Ser Phe Glu Leu Phe Ser
        435                 440                 445
Asn Leu Asn Gly Thr Ile Lys Asp Asp Phe Ser Glu Phe Asp Asn Leu
    450                 455                 460
Arg Thr Ser Lys Lys Thr Gly Met Gln Gly Leu Thr Gly Leu Leu Phe
465                 470                 475                 480
Thr Met Glu Ile
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<210> 11763
<211> 2593
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (167)..(2284)

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ctctgttcgt tttcactgca ggaccaggca cgaaagttaa aacaaaatga agatttttc 180
tgaatctcat aaaacagtgt ttgttgtgga tcactgccct tatatggcag aatcttgcag 240
gcagcatgtc gagtttgata tgctggtgaa gaatagaacc caaggaatca ttcctttggc 300
ccccatatct aaatcattgt ggacttgctc agtagaatct tccatggaat attgtagaat 360
aatgtatgat atatttcctt tcaaaaagct ggtgaatttt attgtgagtg actctggagc 420
acatgtttta aattcttgga ctcaagaaga ccaaaattta caggagctaa tggcagcatt 480
agccgctgtt gggcctccta atcctcgggc agatccagag tgctgcagta ttctgcatgg 540
ccttgttgca gcagtggaaa ctctctgcaa gattactgaa taccaacatg aggctcgtac 600
tctactcatg gagaatgcag aacgtgttgg aaatagagga cgaataatct gtattactaa 660
tgcaaaaagt gatagtcatg tgcgaatgct tgaagactgt gtccaggaaa cgattcatga 720
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tccaatgaag gaagaacagc atgctaacac atctgccaat tatgatgtgg agctacttca 1020
tcacaaagat gcacatgtag atttcctgaa aagtggtgat tcgcatctag gtggcggcag 1080
tcgagaaggc tcgtttaaag aaacaataac attaaagtgg tgtacaccaa ggacaaataa 1140

cattgaatta cactattgta ctggagctta tcggatttca cctgtagatg taaatagtag 1200
accttcctcc tgccttacta attttcttct aaatggtcgt tctgttttat tggaacaacc 1260
acgaaagtca ggttctaaag tcattagtca tatgcttagt agccatggag gagagatttt 1320
tttgcacgtc cttagcagtt ctcgatccat tctagaagat ccaccttcaa ttagtgaagg 1380
atgtggagga agagttacag actaccggat tacagatttt ggtgaattta tgagggaaaa 1440
cagattaact ccttttctag accccagata taaaatcgat ggaagtcttg aggtcccttt 1500
ggaacgagca aaagatcagt tagaaagaca tacccccttac tggcctatga tcatttcaca 1560
aaccaccatt tttaacatgc aagcggtagt tccattagcc agtgttattg tgaaagaatc 1620
tctgacagaa gaagatgtgt taaactgtca aaaaacaata tacaacttag ttgatatgga 1680
aagaaaaaat gatcctctac ctatttccac agttggtaca agaggaaagg gccctaaaag 1740
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caactcagag aaacatcaaa gagtcttgga atgtctgatg gcatgcagga gcaaaccccc 1860
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gaaagcagtg aaagattatg aacaggaaaa gtcttggcaa gactcagaga gattaaaagg 1980
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ttccccagaa cctccaaaca aaaaacccct tgttgaaatg gatgaaactc cacaagtgga 2100
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atatcaacat cttaaagagg aaaatgggat ggagacaaca gaaaatggaa aagccagccg 2280
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atttttaaaa tatttcagct gtcatttttg tactaattat aaaattggca cataattcaa 2460
aaatatacat ttgagatgat ttgtcctccc aaattataca agtttatttt atggtataaa 2520
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<210> 11764
<211> 706
<212> PRT
<213> Homo sapiens

<400> 11764
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35 40 45
Lys Ser Leu Trp Thr Cys Ser Val Glu Ser Ser Met Glu Tyr Cys Arg
50 55 60
Ile Met Tyr Asp Ile Phe Pro Phe Lys Lys Leu Val Asn Phe Ile Val
65 70 75 80
Ser Asp Ser Gly Ala His Val Leu Asn Ser Trp Thr Gln Glu Asp Gln
85 90 95
Asn Leu Gln Glu Leu Met Ala Ala Leu Ala Ala Val Gly Pro Pro Asn
100 105 110
Pro Arg Ala Asp Pro Glu Cys Cys Ser Ile Leu His Gly Leu Val Ala

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        115                 120                 125
Ala Val Glu Thr Leu Cys Lys Ile Thr Glu Tyr Gln His Glu Ala Arg
    130                 135                 140
Thr Leu Leu Met Glu Asn Ala Glu Arg Val Gly Asn Arg Gly Arg Ile
145                 150                 155                 160
Ile Cys Ile Thr Asn Ala Lys Ser Asp Ser His Val Arg Met Leu Glu
                165                 170                 175
Asp Cys Val Gln Glu Thr Ile His Glu His Asn Lys Leu Ala Ala Asn
            180                 185                 190
Ser Asp His Leu Met Gln Ile Gln Lys Cys Glu Leu Val Leu Ile His
        195                 200                 205
Thr Tyr Pro Val Gly Glu Asp Ser Leu Val Ser Asp Arg Ser Lys Lys
    210                 215                 220
Glu Leu Ser Pro Val Leu Thr Ser Glu Val His Ser Val Arg Ala Gly
225                 230                 235                 240
Arg His Leu Ala Thr Lys Leu Asn Ile Leu Val Gln Gln His Phe Asp
                245                 250                 255
Leu Ala Ser Thr Thr Ile Thr Asn Ile Pro Met Lys Glu Glu Gln His
            260                 265                 270
Ala Asn Thr Ser Ala Asn Tyr Asp Val Glu Leu Leu His His Lys Asp
        275                 280                 285
Ala His Val Asp Phe Leu Lys Ser Gly Asp Ser His Leu Gly Gly Gly
    290                 295                 300
Ser Arg Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu Lys Trp Cys Thr
305                 310                 315                 320
Pro Arg Thr Asn Asn Ile Glu Leu His Tyr Cys Thr Gly Ala Tyr Arg
                325                 330                 335
Ile Ser Pro Val Asp Val Asn Ser Arg Pro Ser Ser Cys Leu Thr Asn
            340                 345                 350
Phe Leu Leu Asn Gly Arg Ser Val Leu Leu Glu Gln Pro Arg Lys Ser
        355                 360                 365
Gly Ser Lys Val Ile Ser His Met Leu Ser Ser His Gly Gly Glu Ile
    370                 375                 380
Phe Leu His Val Leu Ser Ser Ser Arg Ser Ile Leu Glu Asp Pro Pro
385                 390                 395                 400
Ser Ile Ser Glu Gly Cys Gly Gly Arg Val Thr Asp Tyr Arg Ile Thr
                405                 410                 415
Asp Phe Gly Glu Phe Met Arg Glu Asn Arg Leu Thr Pro Phe Leu Asp
            420                 425                 430
Pro Arg Tyr Lys Ile Asp Gly Ser Leu Glu Val Pro Leu Glu Arg Ala
        435                 440                 445
Lys Asp Gln Leu Glu Arg His Thr Pro Tyr Trp Pro Met Ile Ile Ser
    450                 455                 460
Gln Thr Thr Ile Phe Asn Met Gln Ala Val Val Pro Leu Ala Ser Val
465                 470                 475                 480
Ile Val Lys Glu Ser Leu Thr Glu Glu Asp Val Leu Asn Cys Gln Lys
                485                 490                 495
Thr Ile Tyr Asn Leu Val Asp Met Glu Arg Lys Asn Asp Pro Leu Pro
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            500                 505                 510
Ile Ser Thr Val Gly Thr Arg Gly Lys Gly Pro Lys Arg Asp Glu Gln
        515                 520                 525
Tyr Arg Ile Met Trp Asn Glu Leu Glu Thr Leu Val Arg Ala His Ile
    530                 535                 540
Asn Asn Ser Glu Lys His Gln Arg Val Leu Glu Cys Leu Met Ala Cys
545                 550                 555                 560
Arg Ser Lys Pro Pro Glu Glu Glu Glu Arg Lys Lys Arg Gly Arg Lys
                565                 570                 575
Arg Glu Asp Lys Glu Asp Lys Ser Glu Lys Ala Val Lys Asp Tyr Glu
            580                 585                 590
Gln Glu Lys Ser Trp Gln Asp Ser Glu Arg Leu Lys Gly Ile Leu Glu
        595                 600                 605
Arg Gly Lys Glu Glu Leu Ala Glu Ala Glu Ile Ile Lys Asp Ser Pro
    610                 615                 620
Asp Ser Pro Glu Pro Pro Asn Lys Lys Pro Leu Val Glu Met Asp Glu
625                 630                 635                 640
Thr Pro Gln Val Glu Lys Ser Lys Gly Pro Val Ser Leu Leu Ser Leu
                645                 650                 655
Trp Ser Asn Arg Ile Asn Thr Ala Asn Ser Arg Lys His Gln Glu Phe
            660                 665                 670
Ala Gly Arg Leu Asn Ser Val Asn Asn Arg Ala Glu Leu Tyr Gln His
        675                 680                 685
Leu Lys Glu Glu Asn Gly Met Glu Thr Thr Glu Asn Gly Lys Ala Ser
    690                 695                 700
Arg Gln
705
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<210> 11765
<211> 2375
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (68)..(2185)

<400> 11765
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cttcgagggc aatttgcaaa gaattttaaa gagtattgaa attgccaaaa acagaggagc 180
aagatacagg cttggaccag agctggaaat atgcggctac ggatgttggg atcattatta 240
cgagtcggac accctcttgc actcgtttca agtcctagcg gcccttctgg agtctcccgt 300
cactcaggac atcatctgcg acgtggggat gcctgtaatg caccgaaacg tccgctacaa 360
ctgcagagtg atattcctca acaggaagat cctgctcatc agacccaaga tggccttggc 420
caatgaaggc aactaccgcg agctgcgctg gttcaccccg tggtcgagga gtcggcacac 480
agaggagtac tttctgcctc ggatgataca ggacctgaca aagcaggaaa ccgtaccctt 540

0088250 5845950

cggagatgcg gtgctggtga catgggacac ctgcattgga agtgagatct gtgaggagct 600
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cgcctcgggc agccaccacg tgctgcgcaa agccaacacc agggtggatc tcgtgactat 720
ggtcaccagc aagaacggtg ggatttactt gctggccaac cagaagggtt gcgacgggga 780
ccgcctgtac tacgacggct gtgccatgat cgccatgaac ggaagcgtct ttgctcaagg 840
atcccagttt tctctggatg acgtggaagt cctgacggcc acgctggatc tggaggacgt 900
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gccacagtcc ctggacggcg tggactgagg ccggttcctt cctggaggcc tcctgtcctc 2220
ggggacccca gcacctcatc atcagcattg ctggagccaa gggtaggagc cctacactag 2280
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aaaaagaggc tggaataaag cctgggctta aaaag 2375

<210> 11766
<211> 706
<212> PRT
<213> Homo sapiens

<400> 11766
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Leu Asp Phe Glu Gly Asn Leu Gln Arg Ile Leu Lys Ser Ile Glu Ile
20 25 30
Ala Lys Asn Arg Gly Ala Arg Tyr Arg Leu Gly Pro Glu Leu Glu Ile
35 40 45
Cys Gly Tyr Gly Cys Trp Asp His Tyr Tyr Glu Ser Asp Thr Leu Leu
50 55 60
His Ser Phe Gln Val Leu Ala Ala Leu Leu Glu Ser Pro Val Thr Gln

0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0

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 65                  70                  75                  80
Asp Ile Ile Cys Asp Val Gly Met Pro Val Met His Arg Asn Val Arg
                85                  90                  95
Tyr Asn Cys Arg Val Ile Phe Leu Asn Arg Lys Ile Leu Leu Ile Arg
            100                 105                 110
Pro Lys Met Ala Leu Ala Asn Glu Gly Asn Tyr Arg Glu Leu Arg Trp
        115                 120                 125
Phe Thr Pro Trp Ser Arg Ser Arg His Thr Glu Glu Tyr Phe Leu Pro
    130                 135                 140
Arg Met Ile Gln Asp Leu Thr Lys Gln Glu Thr Val Pro Phe Gly Asp
145                 150                 155                 160
Ala Val Leu Val Thr Trp Asp Thr Cys Ile Gly Ser Glu Ile Cys Glu
                165                 170                 175
Glu Leu Trp Thr Pro His Ser Pro His Ile Asp Met Gly Leu Asp Gly
            180                 185                 190
Val Glu Ile Ile Thr Asn Ala Ser Gly Ser His His Val Leu Arg Lys
        195                 200                 205
Ala Asn Thr Arg Val Asp Leu Val Thr Met Val Thr Ser Lys Asn Gly
    210                 215                 220
Gly Ile Tyr Leu Leu Ala Asn Gln Lys Gly Cys Asp Gly Asp Arg Leu
225                 230                 235                 240
Tyr Tyr Asp Gly Cys Ala Met Ile Ala Met Asn Gly Ser Val Phe Ala
                245                 250                 255
Gln Gly Ser Gln Phe Ser Leu Asp Asp Val Glu Val Leu Thr Ala Thr
            260                 265                 270
Leu Asp Leu Glu Asp Val Arg Ser Tyr Arg Ala Glu Ile Ser Ser Arg
        275                 280                 285
Asn Leu Ala Ala Ser Arg Ala Ser Pro Tyr Pro Arg Val Lys Val Asp
    290                 295                 300
Phe Ala Leu Ser Cys His Glu Asp Leu Leu Ala Pro Ile Ser Glu Pro
305                 310                 315                 320
Ile Glu Trp Lys Tyr His Ser Pro Glu Glu Glu Ile Ser Leu Gly Pro
                325                 330                 335
Ala Cys Trp Leu Trp Asp Phe Leu Arg Arg Ser Gln Gln Ala Gly Phe
            340                 345                 350
Leu Leu Pro Leu Ser Gly Gly Val Asp Ser Ala Ala Thr Ala Cys Leu
        355                 360                 365
Ile Tyr Ser Met Cys Cys Gln Val Cys Glu Ala Val Arg Ser Gly Asn
    370                 375                 380
Glu Glu Val Leu Ala Asp Val Arg Thr Ile Val Asn Gln Ile Ser Tyr
385                 390                 395                 400
Thr Pro Gln Asp Pro Arg Asp Leu Cys Gly Arg Ile Leu Thr Thr Cys
                405                 410                 415
Tyr Met Ala Ser Lys Asn Ser Ser Gln Glu Thr Cys Thr Arg Ala Arg
            420                 425                 430
Glu Leu Ala Gln Gln Ile Gly Ser His His Ile Ser Leu Asn Ile Asp
        435                 440                 445
Pro Ala Val Lys Ala Val Met Gly Ile Phe Ser Leu Val Thr Gly Lys
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    450                 455                 460
Ser Pro Leu Phe Ala Ala His Gly Gly Ser Ser Arg Glu Asn Leu Ala
465                 470                 475                 480
Leu Gln Asn Val Gln Ala Arg Ile Arg Met Val Leu Ala Tyr Leu Phe
                485                 490                 495
Ala Gln Leu Ser Leu Trp Ser Arg Gly Val His Gly Gly Leu Leu Val
            500                 505                 510
Leu Gly Ser Ala Asn Val Asp Glu Ser Leu Leu Gly Tyr Leu Thr Lys
        515                 520                 525
Tyr Asp Cys Ser Ser Ala Asp Ile Asn Pro Ile Gly Gly Ile Ser Lys
    530                 535                 540
Thr Asp Leu Arg Ala Phe Val Gln Phe Cys Ile Gln Arg Phe Gln Leu
545                 550                 555                 560
Pro Ala Leu Gln Ser Ile Leu Leu Ala Pro Ala Thr Ala Glu Leu Glu
                565                 570                 575
Pro Leu Ala Asp Gly Gln Val Ser Gln Thr Asp Glu Glu Asp Met Gly
            580                 585                 590
Met Thr Tyr Ala Glu Leu Ser Val Tyr Gly Lys Leu Arg Lys Val Ala
        595                 600                 605
Lys Met Gly Pro Tyr Ser Met Phe Cys Lys Leu Leu Gly Met Trp Arg
    610                 615                 620
His Ile Cys Thr Pro Arg Gln Val Ala Asp Lys Val Lys Arg Phe Phe
625                 630                 635                 640
Ser Lys Tyr Ser Met Asn Arg His Lys Met Thr Thr Leu Thr Pro Ala
                645                 650                 655
Tyr His Ala Glu Asn Tyr Ser Pro Glu Asp Asn Arg Phe Asp Leu Arg
            660                 665                 670
Pro Phe Leu Tyr Asn Thr Ser Trp Pro Trp Gln Phe Arg Cys Ile Glu
        675                 680                 685
Asn Gln Val Leu Gln Leu Glu Arg Ala Glu Pro Gln Ser Leu Asp Gly
    690                 695                 700
Val Asp
705
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<210> 11767
<211> 2671
<212> DNA
<213> Homo sapiens

<400> 11767

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cctctacttc aggttattgt tgaaatgacc tgaaatttta aggaagtagc tgaaaatagc 180
attaagattg gaaagaaagg cagacagatt atgagaggcc tataatgcca gccttgtgga 240
ggagccccag agttgtttca gtagacagac aaaatctggt ctgtgcttta gcaactttgt 300
ttcatgaatg aataattaac ctagtgagag agagagtttc agaaagttgt aatgaaagga 360
atggtaatgt gaaagaggcc ctgaagcagc agaattttta tcactggatg attaattaaa 420
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tgaggggatg agggaggctt tgctaacctg aatttcaagc ctgaatgagg ttgatgatga 480
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tagggagagg agggacccct aggttgaaag ggaagactga agagccaggc taagaagtgt 660
cagagtggca gtcagccagc cggggcattg ctgctagagt gagcgaatgc cagctatctt 720
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Pro Lys Val Trp His His Leu Asn Arg Phe Leu Glu Ala His Ser Ser
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<210> 11773
<211> 318
<212> PRT
<213> Homo sapiens

<400> 11773

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Val Gly Thr His Leu Thr His Arg Asp Val Arg Val Leu Ser Phe Leu
        35                  40                  45
Phe Val Asp Val Ile Asp Asp His Glu Arg Gly Leu Ile Arg Asn Gly
    50                  55                  60
Arg Asp Phe Leu Leu Ala Leu Glu Arg Gln Gly Arg Cys Asp Glu Ser
65                  70                  75                  80
Asn Phe Arg Gln Val Leu Gln Leu Leu Arg Ile Ile Thr Arg His Asp
                85                  90                  95
Leu Leu Pro Tyr Val Thr Leu Lys Arg Arg Arg Ala Val Cys Pro Asp
            100                 105                 110
Leu Val Asp Lys Tyr Leu Glu Glu Thr Ser Ile Arg Tyr Val Thr Pro
        115                 120                 125
Arg Ala Leu Ser Asp Pro Glu Pro Arg Pro Pro Gln Pro Ser Lys Thr
    130                 135                 140
Val Pro Pro His Tyr Pro Val Val Cys Cys Pro Thr Ser Gly Pro Arg
145                 150                 155                 160
Met Cys Ser Lys Arg Pro Ala Arg Gly Arg Ala Thr Leu Gly Ser Gln
                165                 170                 175
Arg Lys Arg Arg Lys Ser Val Thr Pro Asp Pro Lys Glu Lys Gln Thr
            180                 185                 190
Cys Asp Ile Arg Leu Arg Val Arg Ala Glu Tyr Cys Gln His Glu Thr
        195                 200                 205
Ala Leu Gln Gly Asn Val Phe Ser Asn Lys Gln Asp Pro Leu Glu Arg
    210                 215                 220
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Gln Phe Glu Arg Phe Asn Gln Ala Asn Thr Ile Leu Lys Ser Arg Asp
225                 230                 235                 240
Leu Gly Ser Ile Ile Cys Asp Ile Lys Phe Ser Glu Leu Thr Tyr Leu
                245                 250                 255
Asp Ala Phe Trp Arg Asp Tyr Ile Asn Gly Ser Leu Leu Glu Ala Leu
            260                 265                 270
Lys Gly Val Phe Ile Thr Asp Ser Leu Lys Gln Ala Val Gly His Glu
        275                 280                 285
Ala Ile Lys Leu Leu Val Asn Val Asp Glu Glu Asp Tyr Glu Leu Gly
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Arg Gln Lys Leu Leu Arg Asn Leu Met Leu Gln Ala Leu Pro
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<210> 11774
<211> 908
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (81)..(458)

<400> 11774
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gcccctaccg ctcagccctt cccagcactt ctcccacttt gtcccgagcc tccttctccc 780
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<210> 11775
<211> 126
<212> PRT
<213> Homo sapiens

<400> 11775

WO 2005/089798 PCT/US2005/008950

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Met Ser Tyr Lys Pro Ile Ala Pro Ala Pro Ser Ser Thr Pro Gly Ser
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Ser Thr Pro Gly Pro Gly Thr Pro Val Pro Thr Gly Ser Val Pro Ser
            20                  25                  30
Pro Ser Gly Ser Val Pro Gly Ala Gly Ala Pro Phe Arg Pro Leu Phe
        35                  40                  45
Asn Asp Phe Gly Pro Pro Ser Met Gly Tyr Val Gln Ala Met Lys Pro
    50                  55                  60
Pro Gly Ala Gln Gly Ser Gln Ser Thr Tyr Thr Asp Leu Leu Ser Val
65                  70                  75                  80
Ile Glu Glu Met Gly Lys Glu Ile Arg Pro Thr Tyr Ala Gly Ser Lys
                85                  90                  95
Ser Ala Met Glu Arg Leu Lys Arg Gly Ile Ile His Ala Arg Ala Leu
            100                 105                 110
Val Arg Glu Cys Leu Ala Glu Thr Glu Arg Asn Ala Arg Thr
        115                 120                 125
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<210> 11776
<211> 2635
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (203)..(2320)

<400> 11776

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ccagcagcct tttccagaga ggctgtggtc catagcctct gttcgttttc actgcaggac 180
caggcacgaa agttaaaaca aaatgaagat tttttctgaa tctcataaaa cagtgtttgt 240
tgtggatcac tgcccttata tggcagaatc ttgcaggcag catgtcgggt ttgatatgct 300
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agaagaccaa aatttacagg agctaatggc agcattagcc gctgttgggc ctcctaatcc 540
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ctgcaaaatt actgaatacc aacatgaggc tcgtactcta ctcatggaga atgcagaacg 660
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0082320-050250

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<210> 11777
<211> 706
<212> PRT
<213> Homo sapiens

<400> 11777
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Cys Pro Tyr Met Ala Glu Ser Cys Arg Gln His Val Gly Phe Asp Met
20 25 30
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35 40 45
Lys Ser Leu Trp Pro Cys Ser Val Glu Ser Ser Met Glu Tyr Cys Arg
50 55 60
Ile Met Tyr Asp Ile Phe Pro Phe Lys Lys Pro Val Asn Phe Ile Val
65 70 75 80
Ser Asp Ser Gly Ala His Val Leu Asn Ser Trp Thr Gln Glu Asp Gln
85 90 95
Asn Leu Gln Glu Leu Met Ala Ala Leu Ala Ala Val Gly Pro Pro Asn
100 105 110
Pro Arg Ala Asp Pro Glu Cys Cys Ser Ile Leu His Gly Leu Val Ala
115 120 125

0080205.0048

Ala Val Glu Thr Leu Cys Lys Ile Thr Glu Tyr Gln His Glu Ala Arg
130 135 140
Thr Leu Leu Met Glu Asn Ala Glu Arg Val Gly Asn Arg Gly Arg Ile
145 150 155 160
Ile Cys Ile Thr Asn Ala Lys Ser Asp Ser His Val Arg Met Leu Glu
165 170 175
Asp Cys Val Gln Glu Thr Ile His Glu His Asn Lys Leu Ala Ala Asn
180 185 190
Ser Asp His Leu Met Gln Ile Gln Lys Cys Glu Leu Val Leu Ile His
195 200 205
Thr Tyr Pro Val Gly Glu Asp Ser Leu Val Ser Asp Arg Ser Lys Lys
210 215 220
Glu Leu Ser Pro Val Leu Thr Ser Glu Val His Ser Val Arg Ala Gly
225 230 235 240
Arg His Leu Ala Thr Lys Leu Asn Ile Leu Val Gln Gln His Phe Asp
245 250 255
Leu Ala Ser Thr Thr Ile Thr Asn Ile Pro Met Lys Glu Glu Gln His
260 265 270
Ala Asn Thr Ser Ala Asn Tyr Asp Val Glu Leu Leu His His Lys Asp
275 280 285
Ala His Val Asp Phe Leu Lys Ser Gly Asp Ser His Leu Gly Gly Gly
290 295 300
Ser Arg Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu Lys Trp Cys Thr
305 310 315 320
Pro Arg Thr Asn Asn Ile Glu Leu His Tyr Cys Thr Gly Ala Tyr Arg
325 330 335
Ile Ser Pro Val Asp Val Asn Ser Arg Pro Ser Ser Cys Leu Thr Asn
340 345 350
Phe Leu Leu Asn Gly Arg Ser Val Leu Leu Glu Gln Pro Arg Lys Ser
355 360 365
Gly Ser Lys Val Ile Ser His Met Leu Ser Ser His Gly Gly Glu Ile
370 375 380
Phe Leu His Val Leu Ser Ser Ser Arg Ser Ile Leu Glu Asp Pro Pro
385 390 395 400
Ser Ile Ser Glu Gly Cys Gly Gly Arg Val Thr Asp Tyr Arg Ile Thr
405 410 415
Asp Phe Gly Glu Phe Met Arg Glu Asn Arg Leu Thr Pro Phe Leu Asp
420 425 430
Pro Arg Tyr Lys Ile Asp Gly Ser Leu Glu Val Pro Leu Glu Arg Ala
435 440 445
Lys Asp Gln Leu Glu Lys His Thr Arg Tyr Arg Pro Met Ile Ile Ser
450 455 460
Gln Thr Thr Ile Phe Asn Met Gln Ala Val Val Pro Leu Ala Ser Val
465 470 475 480
Ile Val Lys Glu Ser Leu Thr Glu Glu Asp Val Leu Asn Cys Gln Lys
485 490 495
Thr Ile Tyr Asn Leu Val Asp Met Glu Arg Lys Asn Asp Pro Leu Pro
500 505 510

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Tyr Arg Ile Met Trp Asn Glu Leu Glu Thr Leu Val Arg Ala His Ile
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Asn Asn Ser Glu Lys His Gln Arg Val Leu Glu Cys Leu Met Ala Cys
545                 550                 555                 560
Arg Ser Lys Pro Pro Glu Glu Glu Glu Arg Lys Lys Arg Gly Arg Lys
                565                 570                 575
Arg Glu Asp Lys Glu Asp Lys Ser Glu Lys Ala Val Lys Asp Tyr Glu
            580                 585                 590
Gln Glu Lys Ser Trp Gln Asp Ser Glu Arg Leu Lys Gly Ile Leu Glu
        595                 600                 605
Arg Gly Lys Glu Glu Leu Ala Glu Ala Glu Ile Ile Lys Asp Ser Pro
    610                 615                 620
Asp Ser Pro Glu Pro Pro Asn Lys Lys Pro Leu Val Glu Met Asp Glu
625                 630                 635                 640
Thr Pro Gln Val Glu Lys Ser Lys Gly Pro Val Ser Leu Leu Ser Leu
                645                 650                 655
Trp Ser Asn Arg Ile Asn Thr Ala Asn Ser Arg Lys His Gln Glu Phe
            660                 665                 670
Ala Gly Arg Leu Asn Ser Val Asn Asn Arg Ala Glu Leu Tyr Gln His
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Leu Lys Glu Glu Asn Gly Met Glu Thr Thr Glu Asn Gly Lys Ala Ser
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Arg Gln
705
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<210> 11778
<211> 2615
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (484)..(837)

<400> 11778
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<212> PRT
<213> Homo sapiens

<400> 11779
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Trp Ile Asp Leu Leu Arg Arg Thr Gly Arg Trp His Ser Arg Thr Arg
35 40 45

Arg Pro Ala Ser Leu Arg Ala Cys Ser Arg Leu Thr Ser Arg Gly Cys
50 55 60
Trp Ala Glu Ala Glu Ser Cys Ser Ser Trp Gly Gln Arg Gly Thr Gly
65 70 75 80
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85 90 95
Pro Gly Pro Ser Pro Pro Lys Gly Pro Arg Thr Leu Ala Phe Asn Pro
100 105 110
Gly Gly Leu Leu Leu Pro
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<210> 11780
<211> 2681
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (109)..(1290)

<400> 11780
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Glu Gln Ala Met Ala Lys Tyr Met Ala Leu Ile Lys Glu Trp Pro Gly
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Tyr Gly Ser Thr Leu Phe Asp Val Glu Cys Lys Glu Gly Gly Phe Pro
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Arg Glu Leu Leu Phe Glu Thr Ser Glu Val Val Asp Val Ala Lys Leu
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<400> 11782

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Ser Asp Lys Ile Lys Val Ile Asn Lys His Ser Thr Glu Val Thr Val
        115                 120                 125
Gly Pro Glu Gly Asp Met Pro Cys Arg Ala Asn Ile Leu Val Thr Glu
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Leu Phe Asp Thr Glu Leu Ile Gly Glu Gly Ala Leu Pro Ser Tyr Glu
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Trp Asn Lys Leu Phe Pro Ile His Val Gln Thr Ser Leu Gly Glu Gln
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Val Ile Val Pro Pro Val Asp Val Glu Ser Cys Pro Gly Ala Pro Ser
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Val Cys Asp Ile Gln Leu Asn Gln Val Ser Pro Ala Asp Phe Thr Val
225                 230                 235                 240
Leu Ser Asp Val Leu Pro Met Phe Ser Ile Asp Phe Ser Lys Gln Val
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Ser Ser Ser Ala Ala Cys His Ser Arg Arg Phe Glu Pro Leu Thr Ser
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Gly Arg Ala Gln Val Val Leu Ser Trp Trp Asp Ile Glu Met Asp Pro
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Glu Gly Lys Ile Lys Cys Thr Met Ala Pro Phe Trp Ala His Ser Asp
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Pro Glu Glu Met Gln Trp Arg Asp His Trp Met Gln Cys Val Tyr Phe
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Gln Ala His Leu Leu Trp Asn Arg Pro Arg Phe Gly Glu Ile Asn Asp
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Asp Pro Arg Ala Leu Leu Gly Gly Pro Arg Thr Val Ser Tyr Ala Val
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<212> DNA
<213> Homo sapiens

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<222> (395)..(2359)

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<400> 11788

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Cys	Ile	Gly	Tyr	Thr	Ala	Thr	Asn	Gln	Asp	Phe	Ile	Gln	Arg	Leu	Ser
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Thr	Leu	Ile	Arg	Gln	Ala	Ile	Glu	Arg	Gln	Leu	Pro	Ala	Trp	Ile	Glu
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<400> 11790

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<400> 11791
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Pro Arg Thr Arg Thr Gly Asp Val Leu Leu Ala Glu Pro Ala Asp Phe
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Glu Ser Leu Leu Leu Ser Arg Pro Val Leu Glu Gly Leu Arg Ala Ala
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Gly Phe Glu Arg Pro Ser Pro Val Gln Leu Lys Ala Ile Pro Leu Gly
85 90 95

0052620-050403

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Arg Leu Lys Lys Cys His Ile Ala Val Gly Ser Pro Gly Arg Ile Lys
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Glu Glu Glu Asn Met Met Met Arg Ile Ala Gln Lys Cys Asn Ile Asn
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755 760 765
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770 775 780
Gln Glu Tyr Tyr Ala Ala Ala Ser His Ser Tyr Tyr Trp Asn Ala Gln
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<211> 3131

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0052705.0946250

<212> DNA
<213> Homo sapiens

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<212> PRT
<213> Homo sapiens

<400> 11793
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35 40 45
Ser Lys Arg Lys Ile Asn Met Ser Gly Tyr Ile Leu Phe Ser Ser Glu
50 55 60
Met Arg Ala Val Ile Lys Ala Gln His Pro Asp Tyr Ser Phe Gly Glu
65 70 75 80
Leu Ser Arg Leu Val Gly Thr Glu Trp Arg Asn Leu Glu Thr Ala Lys
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Lys Ala Glu Tyr Glu Gly Met Met Gly Gly Tyr Pro Pro Gly Leu Pro
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Pro Leu Gln Gly Pro Val Asp Gly Leu Val Ser Met Gly Ser Met Gln
115 120 125
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130 135 140
Pro Gly Leu Pro Gly Ile Pro Pro Pro Gly Val Met Asn Gln Gly Val
145 150 155 160
Ala Pro Met Val Gly Thr Pro Ala Pro Gly Gly Ser Pro Tyr Gly Gln
165 170 175
Gln Val Gly Val Leu Gly Pro Pro Gly Gln Gln Ala Pro Pro Pro Tyr
180 185 190
Pro Gly Pro His Pro Ala Gly Pro Pro Val Ile Gln Gln Pro Thr Thr
195 200 205
Pro Met Phe Val Ala Pro Pro Pro Lys Thr Gln Arg Leu Leu His Ser

0050270 0050350

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Leu Ser Lys Glu Gln Glu Ser Arg Leu Pro Ser His Trp Leu Lys Ser
            260                 265                 270
Lys Gly Ala His Thr Thr Met Ala Asp Ala Leu Trp Arg Leu Arg Asp
        275                 280                 285
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<212> DNA
<213> Homo sapiens

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<222> (1934)..(2569)

<400> 11794

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<212> PRT
<213> Homo sapiens

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35 40 45
Gly Phe Cys Thr Glu Val Glu Glu Asp Leu Ile Asp Ala Val Thr Gly
50 55 60
Leu Ser Gly Ser Gly Pro Ala Tyr Ala Phe Met Ala Leu Asp Ala Leu
65 70 75 80

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Ala Asp Gly Gly Val Lys Met Gly Leu Pro Arg Arg Leu Ala Ile Gln
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Leu Gly Ala Gln Ala Leu Leu Gly Ala Ala Lys Met Leu Leu Asp Ser
100 105 110
Glu Gln His Pro Cys Gln Leu Lys Asp Asn Val Cys Ser Pro Gly Gly
115 120 125
Ala Thr Ile His Ala Leu His Phe Leu Glu Ser Gly Gly Phe Arg Ser
130 135 140
Leu Leu Ile Asn Ala Val Glu Ala Ser Cys Ile Arg Thr Arg Glu Leu
145 150 155 160
Gln Ser Met Ala Asp Gln Glu Lys Ile Ser Pro Ala Ala Leu Lys Lys
165 170 175
Thr Leu Leu Asp Arg Val Lys Leu Glu Ser Pro Thr Val Ser Thr Leu
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Gly Lys Lys Asp
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<211> 1658
<212> DNA
<213> Homo sapiens

<220>
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<222> (100)..(1242)

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<212> PRT
<213> Homo sapiens

<400> 11797

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     50                  55                  60
Glu Leu Lys Tyr Ser Ile Asp Gln Glu Phe Leu Lys Glu Tyr Phe Pro
 65                  70                  75                  80
Ile Glu Val Val Thr Glu Gly Leu Leu Asn Thr Tyr Gln Glu Leu Leu
                 85                  90                  95
Gly Leu Ser Phe Glu Gln Met Thr Asp Ala His Val Trp Asn Lys Ser
            100                 105                 110
Val Thr Leu Tyr Thr Val Lys Asp Lys Ala Thr Gly Glu Val Leu Gly
        115                 120                 125
Gln Phe Tyr Leu Asp Leu Tyr Pro Arg Glu Gly Lys Tyr Asn His Ala
    130                 135                 140
Ala Cys Phe Gly Leu Gln Pro Gly Cys Leu Leu Pro Asp Gly Ser Arg
145                 150                 155                 160
Met Met Ala Val Ala Ala Leu Val Val Asn Phe Ser Gln Pro Val Ala
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Gly Arg Pro Ser Leu Leu Arg His Asp Glu Thr Asp Phe Ala Arg Phe
            180                 185                 190
Ser Gly Thr Asn Val Glu Thr Asp Phe Val Glu Val Pro Ser Gln Met
        195                 200                 205
Leu Glu Asn Trp Val Trp Asp Val Gly Ser Leu Arg Arg Leu Ser Lys
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His Tyr Lys Asp Gly Ser Pro Ile Ala Asp Asp Leu Leu Glu Lys Leu
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0062/0054/2009

0003705950

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Ala Ala Ser Glu Tyr Ala Lys Tyr Cys Ser Glu Ile Leu Gly Val Ala
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Ala Thr Pro Gly Thr Asn Met Pro Ala Thr Phe Gly His Leu Ala Gly
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Gly Tyr Asp Gly Gln Tyr Tyr Gly Tyr Leu Trp Ser Glu Val Phe Ser
305                 310                 315                 320
Met Asp Met Phe Tyr Ser Cys Phe Lys Lys Glu Gly Ile Met Asn Pro
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Glu Val Gly Met Lys Tyr Arg Asn Leu Ile Leu Lys Pro Gly Gly Ser
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<213> Homo sapiens

<220>
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<222> (293)..(787)

<400> 11798

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<212> PRT
<213> Homo sapiens

<400> 11799
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35 40 45
Ile Ser Ile Ser Trp Ala Pro Arg Pro Arg Pro Arg Gly Pro Ala Gln
50 55 60
Arg Arg Asp Pro Arg Ser Ser Thr Leu Glu Pro Glu Asp Asp Asp Glu
65 70 75 80
Asp Glu Glu Asp Thr Val Thr Arg Leu Gly Pro Asp Asp Thr Leu Pro
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Gly Pro Glu Leu Ser Ala Glu Pro Asp Gly Pro Leu Asn Val Asn Val
100 105 110
Phe Thr Ser Ala Glu Glu Leu Glu Arg Ala Gln Arg Leu Glu Glu Arg
115 120 125
Glu Arg Ile Leu Arg Glu Ile Trp Arg Thr Gly Gln Pro Asp Leu Leu
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Gly Thr Gly Thr Leu Gly Pro Ser Pro Thr Ala Thr Gly Thr Leu Gly
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Arg Met His Tyr Tyr
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<213> Homo sapiens

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0052704.0004.0050

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<211> 410
<212> PRT
<213> Homo sapiens

<400> 11801
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Thr Leu Lys Lys Lys Phe Ile Lys Arg Arg Lys Ser Asn Arg Ser Ala
65                  70                  75                  80
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                85                  90                  95
Asp Val Asn Ala Leu Val Glu Glu Tyr Glu Gly Thr Ser Ala Leu Lys
            100                 105                 110
Glu Leu Ser Leu Gln Ala Ser Leu Ala Arg Pro Glu Ala Arg Thr Leu
        115                 120                 125
Gln Lys Asp Met Ala Asp Leu Tyr Glu Tyr Lys Tyr Cys Thr Asp Val
    130                 135                 140
Asp Leu Ile Phe Gln Glu Thr Cys Phe Pro Val His Arg Ala Ile Leu
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Ala Ala Arg Cys Pro Phe Phe Lys Thr Leu Leu Ser Ser Ser Pro Glu
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            180                 185                 190
Pro Met Phe Ser Ala Leu Leu His Tyr Leu Tyr Thr Gly Glu Phe Gly
        195                 200                 205
Met Glu Asp Ser Arg Phe Gln Asn Val Asp Ile Leu Val Gln Leu Ser
    210                 215                 220
Glu Glu Phe Gly Thr Pro Asn Ser Leu Asp Val Asp Met Arg Gly Leu
225                 230                 235                 240
Phe Asp Tyr Met Cys Tyr Tyr Asp Val Val Leu Ser Phe Ser Ser Asp
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Ser Glu Leu Val Glu Ala Phe Gly Gly Asn Gln Asn Cys Leu Asp Glu
            260                 265                 270
Glu Leu Lys Ala His Lys Ala Val Ile Ser Ala Arg Ser Pro Phe Phe
        275                 280                 285
Arg Asn Leu Leu Gln Arg Arg Ile Arg Thr Gly Glu Glu Ile Thr Asp
    290                 295                 300
Arg Thr Leu Arg Thr Pro Thr Arg Ile Ile Leu Asp Glu Ser Ile Ile
305                 310                 315                 320
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<213> Homo sapiens

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<211> 339
<212> PRT
<213> Homo sapiens

<400> 11803

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	210					215					220				
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    290                 295                 300
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<213> Homo sapiens

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<211> 296
<212> PRT
<213> Homo sapiens

<400> 11805

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Gln	Glu	Asn	Trp	Tyr	Gly	Arg	Tyr	Ser	Thr	Ala	Ser	Arg	Asp	Met	Tyr
65					70					75					80
Phe	Asp	Ile	Pro	Leu	Glu	His	Arg	Glu	Thr	Ser	Ile	Ile	Lys	Arg	His
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Pro	Pro	Gln	Arg	Leu	Gln	Lys	Leu	Glu	Pro	Ile	Asp	Leu	Pro	Arg	Val
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Ile	Thr	Ser	Gly	Arg	Leu	Leu	Ser	Gln	Arg	Glu	Ala	Arg	Thr	Met	His
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Lys	Ala	Lys	Gln	Val	Leu	Glu	Lys	Lys	Met	Gln	Thr	Pro	Met	Tyr	Thr
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Ser	Glu	Asn	Arg	Gln	Tyr	Leu	His	Lys	Met	Gln	Val	Leu	Glu	Met	Ile
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Arg	Lys	Arg	Gln	Glu	Ala	Gln	Met	Glu	Leu	Lys	Lys	Ser	Leu	His	Gly

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Glu Ala Arg Ile Asn Lys Gln Ser Pro Arg Asp His Lys Ala Lys Lys
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Thr Leu Gln Ser Thr Pro Arg Asn Asp Asp His Asp Leu Leu Thr Met
        195                 200                 205
Leu Pro Asp Glu Ile Leu Asn Arg Gly Pro Gly Asn Ser Lys Asp Thr
    210                 215                 220
Glu Phe Leu Lys His Gln Ala Val Asn Asn Cys Cys Pro Trp Lys Ile
225                 230                 235                 240
Gly Lys Met Glu Thr Trp Leu His Glu Gln Glu Ala Gln Gly Gln Leu
                245                 250                 255
Leu Trp Asp Ser Ser Ser Ser Asp Ser Asp Glu Gln Gly Lys Asp Glu
            260                 265                 270
Lys Lys Pro Arg Ala Leu Val Arg Thr Arg Thr Glu Arg Ile Pro Leu
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Phe Asp Glu Phe Phe Asp Gln Glu
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<212> DNA
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ttaaatagca caggatttac gtgctcagag tctacagaag cagcagcaat atctggttta 480
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<212> PRT
<213> Homo sapiens

<400> 11807

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		20					25					30			
Lys	Asn	Thr	Asp	Asp	Asp	Asp	Asp	Asp	Cys	Gly	Thr	Ile	Asp	Glu	Leu
	35					40					45				
Pro	Pro	Asp	Ser	Leu	Ile	Thr	Leu	Val	Gln	Pro	Glu	Leu	Pro	Thr	Leu
50					55					60					
Ser	Arg	Leu	Trp	Leu	Ala	Ala	Leu	Lys	Asp	Tyr	Ala	Leu	Leu	Thr	Leu
65				70					75					80	
Pro	Ala	Glu	Phe	Ser	Ser	Gln	Leu	Pro	Pro	Asp	Gly	Gly	Ala	Phe	Tyr
			85					90					95		
Thr	Pro	Glu	Thr	Ile	Asp	Thr	Ala	Arg	Leu	His	Tyr	Arg	Asn	Ser	Trp
		100					105					110			
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130					135					140					
Arg	Ser	Thr	Ser	Val	Asn	Leu	Asn	Gln	Ala	Ser	Gly	Ala	Val	Gly	Ser
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        195                 200                 205
Pro Tyr Ala Arg Val His Ile Ala Glu Asp Gln Leu Ile Gly Val Gly
    210                 215                 220
Leu Leu Ser Val Leu His Arg Leu Leu Leu Thr Trp Asn Pro Ser Ser
225                 230                 235                 240
Val Gln Leu Leu Val Thr Gly Val Val Gln Gln Ile Val Arg Ala Ala
                245                 250                 255
Gln Asp Tyr Leu Gln Glu Lys Arg Asn Thr Leu Arg Cys Met Thr Ile
            260                 265                 270
Leu Pro Thr Ile Leu Phe Leu Ile Ala Arg Ile Leu Lys Asp Thr Ala
        275                 280                 285
Ile Lys Ser Ala Asp Asn Gln Val Pro Pro Pro Val Ser Ala Ala Leu
    290                 295                 300
Gln Gly Ile Lys Ser Ile Val Thr Leu Ser Met Ala Lys Thr Glu Ala
305                 310                 315                 320
Gly Val Gln Lys Gln Trp Thr Ala Leu Ile Arg Ser Thr Leu Ala Cys
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Ile Leu Glu Tyr Ser Gln Pro Glu Asp Ser Val Pro Thr Pro Asp Glu
            340                 345                 350
Val Ser Met Leu Thr Ala Ile Ala Leu Phe Leu Trp Ser Ala Ser Asn
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Glu Ile Ile Gly Val Gln Ser Leu Gln Asn Gly Cys Met Asn Arg Phe
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Lys Asn Ala Leu Asn Ser Cys Asp Pro Trp Val Gln Ala Lys Cys Tyr
385                 390                 395                 400
Gln Leu Leu Leu Ser Val Phe Gln His Ser Asn Arg Ala Leu Ser Thr
                405                 410                 415
Pro Tyr Ile His Ser Leu Ala Pro Ile Val Val Glu Lys Leu Lys Ala
            420                 425                 430
Val Glu Arg Asn Arg Pro Ala Ser Asn Ile Glu Leu Leu Ala Val Gln
        435                 440                 445
Glu Gly Ile Lys Val Leu Glu Thr Leu Val Ala Leu Gly Glu Glu Gln
    450                 455                 460
Asn Arg Val Gln Leu Leu Ala Leu Leu Val Pro Thr Leu Ile Ser Tyr
465                 470                 475                 480
Leu Leu Asp Glu Asn Ser Phe Ala Ser Ala Ser Ser Ala Ser Lys Asp
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Leu His Glu Phe Ala Leu Gln Asn Leu Met His Ile Gly Pro Leu Tyr
            500                 505                 510
Pro His Ala Phe Lys Thr Val Met Gly Ala Ala Pro Glu Leu Lys Val
        515                 520                 525
Arg Leu Glu Thr Ala Val Arg Ala Ser Gln Ala Ser Lys Ala Lys Ala
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Ala Ala Arg Gln Pro Ala Pro Ala Ile His Ser Ala Pro Thr Ile Lys
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<212> DNA
<213> Homo sapiens

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<212> PRT
<213> Homo sapiens

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         35                  40                  45
Thr Lys Ala Ser Ser Ser Lys Phe Ser Arg Ile Leu Thr Pro Lys Glu
     50                  55                  60
Tyr Leu Gln Arg Gln Lys His Lys Glu Ala Pro Ser Asn Lys Ala Ser
 65                  70                  75                  80
Lys Lys Ile Cys Val Lys Asn Val Pro Cys Asp Ser Glu His Met Arg
                 85                  90                  95
Pro Ser Lys Leu Ala Val Gln Val Glu Ser Cys Gly Lys Ser Asn Glu
            100                 105                 110
Lys His Ser Ser Gly Val Gln Thr Ser Lys Glu Ser Leu Asn Gly Leu
        115                 120                 125
Thr Ser His Gly Lys Asn Leu Lys Ile His His Ser Gln Glu Ser Lys
    130                 135                 140
Thr Tyr Asn Ile Leu Arg Asn Val Lys Glu Lys Val Gly Gly Lys Gln
145                 150                 155                 160
Pro Asp Lys Ile Trp Ile Asp Lys Thr Lys Leu Asp Lys Leu Thr Asn
                165                 170                 175
Ile Ser Asn Glu Ala Gln Phe Ser Gln Met Pro Pro Gln Val Lys Asp
            180                 185                 190
Gln Lys Lys Leu Tyr Leu Asn Arg Val Gly Phe Lys Cys Thr Glu Arg
        195                 200                 205
Glu Ser Ile Ser Leu Thr Lys Leu Glu Ser Ser Pro Arg Lys Leu His
    210                 215                 220
Lys Asp Lys Arg Gln Glu Asn Lys His Lys Thr Phe Leu Pro Val Lys
225                 230                 235                 240
Gly Asn Thr Glu Lys Ser Asn Met Leu Glu Phe Lys Leu Cys Pro Asp
                245                 250                 255
Ile Leu Leu Lys Asn Thr Asn Ser Val Glu Glu Arg Lys Asp Val Lys
            260                 265                 270
Pro His Pro Arg Lys Glu Gln Ala Pro Leu Gln Val Ser Gly Ile Lys
        275                 280                 285
Ser Thr Lys Glu Asp Trp Leu Lys Phe Val Ala Thr Lys Lys Arg Thr
    290                 295                 300
Gln Lys Asp Ser Gln Glu Arg Asp Asn Val Asn Ser Arg Leu Ser Lys
305                 310                 315                 320
Arg Ser Phe Ser Ala Asp Gly Phe Glu Met Leu Gln Asn Pro Val Lys
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<212> DNA
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<212> PRT
<213> Homo sapiens

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Cys Lys Pro Lys Ile Val His Ser Asn Trp Asn Ile Leu Asn Asn Phe
        50                  55                  60
His Asn Arg Met Gln Ser Thr Asp Ile Ile Arg Tyr Leu Phe Gln Asp
65                  70                  75                  80
Ala Phe Ile Phe Lys Ser Asp Val Gly Phe Gln Thr Lys Gly Ile Ser
                85                  90                  95
Thr Leu Thr Ala Leu Arg Ile Glu Arg Leu Leu Tyr Ala Lys Arg Leu
            100                 105                 110
Phe Phe Asp Ser Lys Gln Ser Leu Val Pro Val Asp Lys Ser Asp Asp
        115                 120                 125
Glu Leu Lys Lys Val Asn Leu Asn His Glu Val Ser Asn Glu Asp Val
    130                 135                 140
Leu Thr Lys Glu Thr Lys Pro Asn Arg Ile Ser Ser Arg Lys Leu Ser
145                 150                 155                 160
Glu Glu Cys Asn Ser Leu Ser Asp Val Leu Asp Ala Phe Ser Lys Ala
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Pro Thr Phe Pro Ser Ser Asn Tyr Phe Thr Ala Met Trp Thr Ile Ala
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Lys Arg Leu Ser Asp Asp Gln Lys Arg Phe Glu Lys Arg Leu Met Phe
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Lys Ile Met Gln Tyr Lys Tyr Leu Leu Phe Ser Leu His Ala Ile Ala
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Ala Ala Met Asn His Arg Ser Leu Ile Leu Leu Asp Glu Cys Ser Lys
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Arg Lys Val Leu Phe Ile Leu Ile Leu Phe Glu Asn Leu Gly Phe Arg
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Pro Val Gly Leu Met Asp Leu Phe Met Lys Arg Ile Val Glu Asp Pro
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Glu Ser Leu Asn Met Lys Asn Ile Leu Ser Ile Leu His Thr Tyr Ser
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Ser Leu Pro Gln Leu Pro Arg Glu Leu Pro Ser Ser His Thr Asn Ala
565 570 575
Lys Val Ala Glu Val Leu Ser Ser Leu Leu Gly Gly Glu Gly His Phe
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Ser Lys Asp Val His Leu Pro His Asn Tyr His Ile Asp Phe Glu Ile
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Arg Met Asp Thr Asn Arg Asn Gln Val Leu Pro Leu Ser Asp Val Asp
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Arg Ser Ala Tyr Cys Leu Gly Ser Ser His Pro Arg Gly Phe Leu Ala
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Met Lys Met Arg His Leu Asn Ala Met Gly Phe His Val Ile Leu Val
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<213> Homo sapiens

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<400> 11814

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    50                  55                  60
Thr Gly Phe Gly Thr Thr Thr Gly Thr Ser Thr Gly Leu Gly Thr Gly
65                  70                  75                  80
Leu Gly Thr Gly Leu Gly Phe Gly Gly Phe Asn Thr Gln Gln Gln Gln
                85                  90                  95
Gln Thr Thr Leu Gly Gly Leu Phe Ser Gln Pro Thr Gln Ala Pro Thr
            100                 105                 110
Gln Ser Asn Gln Leu Ile Asn Thr Ala Ser Ala Leu Ser Ala Pro Thr
        115                 120                 125
Leu Leu Gly Asp Glu Arg Asp Ala Ile Leu Ala Lys Trp Asn Gln Leu
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Gln Ala Phe Trp Gly Thr Gly Lys Gly Tyr Phe Asn Asn Asn Ile Pro
145                 150                 155                 160
Pro Val Glu Phe Thr Gln Glu Asn Pro Phe Cys Arg Phe Lys Ala Val
                165                 170                 175
Gly Tyr Ser Cys Met Pro Ser Asn Lys Asp Glu Asp Gly Leu Val Val
            180                 185                 190
Leu Val Phe Asn Lys Lys Glu Thr Glu Ile Arg Ser Gln Gln Gln Gln
        195                 200                 205
Leu Val Glu Ser Leu His Lys Val Leu Gly Gly Asn Gln Thr Leu Thr
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225                 230                 235                 240
Val Ile Tyr Val Val Glu Arg Ser Pro Asn Gly Thr Ser Arg Arg Val
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Pro Ala Thr Thr Leu Tyr Ala His Phe Glu Gln Ala Asn Ile Lys Thr
            260                 265                 270
Gln Leu Gln Gln Leu Gly Val Thr Leu Ser Met Thr Arg Thr Glu Leu
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Ser Pro Ala Gln Ile Lys Gln Leu Leu Gln Asn Pro Pro Ala Gly Val
    290                 295                 300
Asp Pro Ile Ile Trp Glu Gln Ala Lys Val Asp Asn Pro Asp Ser Glu
305                 310                 315                 320
Lys Leu Ile Pro Val Pro Met Val Gly Phe Lys Glu Leu Leu Arg Arg
                325                 330                 335
Leu Lys Val Gln Asp Gln Met Thr Lys Gln His Gln Thr Arg Leu Asp
            340                 345                 350
Ile Ile Ser Glu Asp Ile Ser Glu Leu Gln Lys Asn Gln Thr Thr Ser
        355                 360                 365
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Val Ala Lys Ile Ala Gln Tyr Lys Arg Lys Leu Met Asp Leu Ser His
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Arg Thr Leu Gln Val Leu Ile Lys Gln Glu Ile Gln Arg Lys Ser Gly
385 390 395 400
Tyr Ala Ile Gln Ala Asp Glu Glu Gln Leu Arg Val Gln Leu Asp Thr
405 410 415
Ile Gln Gly Glu Leu Asn Ala Pro Thr Gln Phe Lys Gly Arg Leu Asn
420 425 430
Glu Leu Met Ser Gln Ile Arg Met Gln Asn His Phe Gly Ala Val Arg
435 440 445
Ser Glu Glu Arg Tyr Tyr Ile Asp Ala Asp Leu Leu Arg Glu Ile Lys
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Leu Lys Thr Ile

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<212> DNA
<213> Homo sapiens

<220>
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<222> (156)..(1091)

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<212> PRT
<213> Homo sapiens

<400> 11816

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			20					25					30		
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Asp	Val	Ile	Gln	Asn	Ser	Lys	Arg	Lys	Gly	Pro	Glu	Phe	Thr	Lys	Asp
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Phe	Ala	Pro	Val	Ile	Val	Glu	Ala	Phe	Lys	His	Val	Ser	Ser	Glu	Thr
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Gly Glu Arg Leu Ser Lys Met Val Glu Asp Ala Cys Met Leu Leu Ala
210 215 220
Asp Tyr Asn Gly Arg Leu Ala Ala Glu Val Asp Asp Arg Lys Gln Leu
225 230 235 240
Thr Arg Met Leu Ala Asp Phe Leu Arg Cys Gln Lys Glu Ala Leu Ala
245 250 255
Glu Lys Glu His Lys Leu Glu Glu Tyr Lys Arg Lys Leu Ala Arg Val
260 265 270
Ser Leu Val Arg Lys Glu Leu Arg Ser Arg Ile Gln Ser Leu Pro Asp
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<212> PRT
<213> Homo sapiens

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35 40 45
Leu Ser Gly Thr Arg Met Asp Leu Gly Glu Cys Leu Lys Val His Asp
50 55 60
Leu Ala Leu Arg Ala Asp Tyr Glu Ile Ala Ser Lys Glu Gln Asp Phe
65 70 75 80
Phe Phe Glu Leu Asp Ala Met Asp His Leu Gln Ser Phe Ile Ala Asp

0058270 6346250

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Leu Asn Glu Glu Ile Gly Lys Leu Leu Ala Lys Val Glu Gln Leu Gly
    130                 135                 140
Ala Glu Gly Asn Val Glu Glu Ser Gln Lys Val Met Asp Glu Val Glu
145                 150                 155                 160
Lys Ala Arg Ala Lys Lys Arg Glu Ala Glu Glu Val Tyr Arg Asn Ser
                165                 170                 175
Met Pro Ala Ser Ser Phe Gln Gln Gln Lys Leu Arg Val Cys Glu Val
            180                 185                 190
Cys Ser Ala Tyr Leu Gly Leu His Asp Asn Asp Arg Arg Leu Ala Asp
        195                 200                 205
His Phe Gly Gly Lys Leu His Leu Gly Phe Ile Glu Ile Arg Glu Lys
    210                 215                 220
Leu Glu Glu Leu Lys Arg Val Val Ala Glu Lys Gln Glu Lys Arg Asn
225                 230                 235                 240
Gln Glu Arg Leu Lys Arg Arg Glu Glu Arg Glu Arg Glu Glu Arg Glu
                245                 250                 255
Lys Leu Arg Arg Ser Arg Ser His Ser Lys Asn Pro Lys Arg Ser Arg
            260                 265                 270
Ser Arg Glu His Arg Arg His Arg Ser Arg Ser Met Ser Arg Glu Arg
        275                 280                 285
Lys Arg Arg Thr Arg Ser Lys Ser Arg Glu Lys Arg His Arg His Arg
    290                 295                 300
Ser Arg Ser Ser Ser Arg Ser Arg Ser Arg Ser His Gln Arg Ser Arg
305                 310                 315                 320
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Ser Ser Arg Asp Arg Ser Pro Arg Asp Arg Asp Arg Lys Asp Lys Lys
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<212> DNA
<213> Homo sapiens

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0088270 - 5th 2950

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<213> Homo sapiens

<400> 11821

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         35                  40                  45
Phe Tyr Phe Thr Leu Gln Asn Trp Val Leu Asp Phe Gly Arg Pro Ile
     50                  55                  60
Ala Met Leu Val Phe Pro Leu Glu Trp Phe Pro Leu Asn Lys Pro Ser
 65                  70                  75                  80
Val Gly Asp Tyr Phe His Met Ala Tyr Asn Val Ile Thr Pro Phe Leu
                 85                  90                  95
Leu Leu Lys Leu Ile Glu Arg Ser Pro Arg Thr Leu Pro Arg Ser Ile
            100                 105                 110
Thr Tyr Val Ser Ile Ile Ile Phe Ile Met Gly Ala Ser Ile His Leu
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Val Gly Asp Ser Val Asn His Arg Leu Leu Phe Ser Gly Tyr Gln His
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His Leu Ser Val Arg Glu Asn Pro Ile Ile Lys Asn Leu Lys Pro Glu
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Val Thr Glu Gly Gln Ile Phe Ile Leu Phe Ile Phe Thr Phe Phe Ala
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<213> Homo sapiens

<400> 11823

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Gln Met Ala Met Met Glu Pro Met Ile Gly Phe Ala His Gly Gln Ile
195 200 205
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210 215 220
Phe Leu Ser Ser Val Ala Asp Met Val Gln Ser Ile Gln Val Glu Leu
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245 250 255
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260 265 270
Ser Thr Gly Thr Ser Ser Arg Arg Leu Val Thr Leu Ile Leu Glu Thr
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<213> Homo sapiens

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35 40 45
Tyr Tyr Lys Glu Thr Leu Ser Val Pro Thr Val Glu His Ile Ile Gln
50 55 60
Glu Leu Lys Asp Ile Phe Ser Glu Gln His Leu Lys Ala Leu Lys Cys
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Leu Ser Leu Val Pro Ser Val Met Gly Gln Leu Lys Phe Asn Thr Ser
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Glu Glu His His Ala Asp Met Tyr Arg Ser Asp Leu Pro Asn Pro Asp
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Thr Leu Ser Ala Glu Leu His Cys Trp Arg Ile Lys Trp Lys His Arg
115 120 125
Gly Lys Asp Ile Glu Leu Pro Ser Thr Ile Tyr Glu Ala Leu His Leu
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Pro Asp Ile Lys Phe Phe Pro Asn Val Tyr Ala Leu Leu Lys Val Leu
145 150 155 160

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Cys Ile Leu Pro Val Met Lys Val Glu Asn Glu Arg Tyr Glu Asn Gly
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Arg Lys Arg Leu Lys Ala Tyr Leu Arg Asn Thr Leu Thr Asp Gln Arg
180 185 190
Ser Ser Asn Leu Ala Leu Leu Asn Ile Asn Phe Asp Ile Lys His Asp
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<212> DNA
<213> Homo sapiens

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50 55 60
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Gly His Arg Ser Tyr Leu Leu Thr Cys Cys Ile Ala Gln Lys Pro Ser
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Cys Arg Trp Ser Gly Ser Cys Gly Gly Trp Leu Pro Ala Gly Ser Thr
100 105 110
Ser Gly Leu Leu Asn Ser Thr Trp Pro Leu Pro Ser Ala Thr Gln Arg
115 120 125
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<213> Homo sapiens

<400> 11829

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Cys Thr Leu Leu Phe Ala Phe Glu Cys Arg Tyr Leu Ala Val Gln Leu
    50                  55                  60
Ser Pro Ala Ile Pro Val Phe Ala Ala Met Leu Phe Leu Phe Ser Met
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Ala Thr Leu Leu Arg Thr Ser Phe Ser Asp Pro Gly Val Ile Pro Arg
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Phe Gln Ile Asn Asn Gln Ile Val Lys Leu Lys Tyr Cys Tyr Thr Cys
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Pro Tyr Ser His Gly Asn Ile Val Lys Asn Cys Cys Glu Val Leu Cys
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50 55 60
Pro Cys Leu Val Ser Pro Gly Pro His Arg Pro Pro Cys Cys Gly Arg
65 70 75 80
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85 90 95
Ser Gly Ser Gly Val Cys Met Gly Glu Ser Ser Phe His Asp Ala Ala

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<213> Homo sapiens

<400> 11832

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<212> PRT
<213> Homo sapiens

<400> 11834

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			20					25					30		
Ser	Thr	Thr	Gly	Arg	Leu	Tyr	Pro	Arg	Gly	Tyr	Pro	Val	Leu	Asp	Pro
		35					40					45			
Ser	Arg	Arg	Arg	Leu	Gln	Gln	Tyr	Val	Pro	Phe	Ala	Arg	Gly	Ser	Gly
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Lys	Arg	His	Gly	Gly	His	Val	Gly	Ala	Gly	Leu	Leu	His	Ser	Pro	Lys
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Trp	Arg	Glu	Leu	Val	Pro	Gly	His	Lys	Glu	Met	Ser	Gln	Glu	Leu	Cys
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Leu Asp Pro Ile Gly Leu Gln Ser Gly Phe Leu Thr Phe Gly Gln Arg
                245                 250                 255
Phe His Pro Tyr Val Gln Tyr Cys Leu Arg Val Lys Gln Thr Met Ala
            260                 265                 270
Tyr Ala Arg Glu Gln Gln Glu Thr Asn Pro Leu Phe His Ala Phe Val
        275                 280                 285
Gln Trp Cys Glu Lys His Lys Arg Ser Gly Arg Gln Met Leu Cys Asp
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        435                 440                 445
Ala Lys Val Ile Arg Pro Pro Leu Met Leu Asp Lys Leu Val Cys Gln
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Pro Leu Arg Asp Pro Asn Ser Phe Leu Leu Ile His Leu Thr Glu Phe
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Arg Ala Gln Trp Leu Glu Lys Thr Gln Gln Ala Gln Ala Ala Leu Gln
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Lys Leu Lys Ala Glu Glu Tyr Val Gln Gln Lys Arg Glu Leu Leu Thr
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Pro Ser Leu Glu Gly Ser Gln Ser Ser Ala Glu Gly Arg Thr Pro Glu
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Phe Ser Thr Ile Ile Pro His Leu Val Val Thr Glu Asp Thr Asp Glu
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Asp Ala Pro Leu Val Pro Asp Asp Thr Ser Asp Ser Gly Tyr Gly Thr
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Glu Leu Arg Asp Ile Pro Leu Arg Pro His Pro Pro Asp Pro Gln Ala
625                 630                 635                 640
Pro Gln Arg Arg Ser Ala Pro Glu Leu Pro Glu Gly Ile Leu Lys Gly
                645                 650                 655
Gly Ser Leu Pro Gln Glu Asp Pro Pro Thr Trp Ser Glu Glu Glu Asp
            660                 665                 670
Gly Ala Ser Glu Arg Gly Asn Val Val Val Glu Thr Leu His Arg Ala
        675                 680                 685
Arg Leu Arg Gly Gln Leu Pro Ser Ser Pro Thr His Ala Asp Ser Ala
    690                 695                 700
Gly Glu Ser Pro Trp Glu Ser Ser Gly Glu Glu Glu Glu Glu Gly Pro
705                 710                 715                 720
Leu Phe Leu Lys Ala Gly His Thr Ser Leu Arg Pro Met Arg Ala Glu
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Asp Met Leu Arg Glu Ile Arg Glu Glu Leu Ala Ser Gln Arg Ile Glu
            740                 745                 750
Gly Ala Glu Glu Pro Arg Asp Ser Arg Pro Arg Lys Leu Thr Arg Ala
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Gln Leu Gln Arg Met Arg Gly Pro His Ile Ile Gln Leu Asp Thr Pro
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<212> PRT
<213> Homo sapiens

<400> 11836
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35 40 45
Ser Asp Leu Ala Leu Ala Leu Leu Asp Gly Thr Val Phe Glu Ile Val
50 55 60
Gln Gly Leu Leu Glu Ile Gln His Leu Thr Glu Lys Ser Leu Tyr Asn
65 70 75 80
Arg Arg Leu Arg Leu Gln Asn Glu His Arg Val Leu Arg Gln Ala Leu
85 90 95
Arg Gln Lys His Gln Glu Ala Gln Gln Ala Cys Arg Pro His Asn Leu
100 105 110
Pro Val Val Gln Ala Ala Gln Gln Arg Glu Leu Glu Ala Val Glu His
115 120 125
Arg Ile Arg Glu Glu Gln Arg Ala Met Asp Gln Lys Ile Ile Leu Glu
130 135 140
Leu Asp Arg Lys Val Ala Asp Gln Gln Ser Thr Leu Glu Lys Ala Gly
145 150 155 160
Val Ala Gly Phe Tyr Val Thr Thr Asn Pro Gln Glu Leu Met Leu Gln
165 170 175
Met Asn Leu Leu Glu Leu Ile Arg Lys Leu Gln Gln Arg Gly Cys Arg
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Ala Gly Asn Ala Ala Leu Gly Leu Gly Gly Pro Trp Gln Ser Pro Ala
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Ala Gln Cys Asp Gln Lys Gly Ser Pro Val Pro Pro
210 215 220

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<212> DNA
<213> Homo sapiens

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<222> (319)..(1194)

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<211> 292
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<213> Homo sapiens

<400> 11838

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Thr Pro Glu Ser Ser Thr Ile Ala Ser Tyr Val Thr Leu Arg Lys Thr
         35                  40                  45
Lys Lys Met Met Asp Leu Arg Thr Glu Arg Pro Arg Ser Ala Val Glu
     50                  55                  60
Gln Leu Cys Leu Ala Glu Ser Thr Arg Pro Arg Met Thr Val Glu Glu
 65                  70                  75                  80
Gln Met Glu Arg Ile Arg Arg His Gln Gln Ala Cys Leu Arg Glu Lys
                 85                  90                  95
Lys Lys Gly Leu Asn Val Ile Gly Ala Ser Asp Gln Ser Pro Leu Gln
            100                 105                 110
Ser Pro Ser Asn Leu Arg Asp Asn Pro Phe Arg Thr Thr Gln Thr Arg
        115                 120                 125
Arg Arg Asp Asp Lys Glu Leu Asp Thr Ala Ile Arg Glu Asn Asp Val
    130                 135                 140
Lys Ser Asp His Glu Thr Pro Ala Thr Glu Ile Val Gln Leu Lys Glu
145                 150                 155                 160
Thr Glu Pro Gln Asn Val Asp Phe Ser Lys Glu Leu Lys Lys Thr Glu
                165                 170                 175
Asn Ile Ser Tyr Glu Met Leu Phe Glu Pro Glu Pro Asn Gly Val Asn
            180                 185                 190
Ser Val Glu Met Met Asp Lys Glu Arg Asn Lys Asp Lys Met Pro Glu
        195                 200                 205
Asp Val Thr Phe Ser Pro Gln Asp Glu Thr Gln Thr Ala Asn His Lys
    210                 215                 220
Pro Glu Glu His Pro Glu Glu Asn Thr Lys Asn Ser Val Asp Glu Gln
225                 230                 235                 240
Glu Glu Thr Val Ile Ser Tyr Glu Ser Thr Pro Glu Val Ser Arg Gly
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<212> DNA

<213> Homo sapiens

<220>
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<210> 11840
<211> 103
<212> PRT
<213> Homo sapiens

<400> 11840

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Arg Gly Ile Pro Pro Pro Ser Val Leu Asp Ser Ala Leu His Pro Pro
        35                  40                  45
Pro Arg Gly Pro Phe Pro Pro Gly Asp Ile Phe Ser Gln Pro Glu Arg
    50                  55                  60
Pro Phe Leu Ala Pro Gly Arg Gln Ser Val Thr Met Leu Leu Thr Gln
65                  70                  75                  80
Lys Lys Gly Tyr His Leu Gly Met Ile Thr Phe Asn Arg Lys Glu Ile
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<210> 11841
<211> 2279
<212> DNA
<213> Homo sapiens

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<221> CDS
<222> (176)..(2191)

<400> 11841

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<212> PRT
<213> Homo sapiens

<400> 11842

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			20					25					30		
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Thr	Pro	Pro	Ala	Cys	Leu	Leu	Asp	Gly	Leu	Val	Arg	Leu	Gln	His	Leu
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Arg	Phe	Leu	Arg	Glu	Pro	Val	Val	Thr	Pro	Gln	Asp	Leu	Glu	Gly	Pro
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Gly	Arg	Ala	Glu	Ser	Lys	Glu	Ser	Val	Gly	Ser	Arg	Asp	Ser	Ser	Lys
				85					90					95	
Arg	Glu	Gly	Leu	Leu	Ala	Thr	His	Pro	Arg	Pro	Gly	Gln	Glu	Arg	Pro
			100					105					110		
Gly	Val	Ala	Arg	Lys	Glu	Pro	Ala	Arg	Ala	Glu	Ala	Pro	Arg	Lys	Thr
		115					120					125			
Glu	Lys	Glu	Ala	Lys	Thr	Pro	Arg	Glu	Leu	Lys	Lys	Asp	Pro	Lys	Pro
	130					135					140				
Ser	Val	Ser	Arg	Thr	Gln	Pro	Arg	Glu	Val	Arg	Arg	Ala	Ala	Ser	Ser
145					150					155					160
Val	Pro	Asn	Leu	Lys	Lys	Thr	Asn	Ala	Gln	Ala	Ala	Pro	Lys	Pro	Arg
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210 215 220
Glu Leu Gly Pro Ile Pro Ala Gly Glu Glu Lys Ala Leu Glu Leu Pro
225 230 235 240
Leu Ala Ala Ser Ser Ile Pro Arg Pro Arg Thr Pro Ser Pro Glu Ser
245 250 255
His Arg Ser Pro Ala Glu Gly Ser Glu Arg Leu Ser Leu Ser Pro Leu
260 265 270
Arg Gly Gly Glu Ala Gly Pro Asp Ala Ser Pro Thr Val Thr Thr Pro
275 280 285
Thr Val Thr Thr Pro Ser Leu Pro Ala Glu Val Gly Ser Pro His Ser
290 295 300
Thr Glu Val Asp Glu Ser Leu Ser Val Ser Phe Glu Gln Val Leu Pro
305 310 315 320
Pro Ser Ala Pro Thr Ser Glu Ala Gly Leu Ser Leu Pro Leu Arg Gly
325 330 335
Pro Arg Ala Arg Arg Ser Ala Ser Pro His Asp Val Asp Leu Cys Leu
340 345 350
Val Ser Pro Cys Glu Phe Glu His Arg Lys Ala Val Pro Met Ala Pro
355 360 365
Ala Pro Ala Ser Pro Gly Ser Ser Asn Asp Ser Ser Ala Arg Ser Gln
370 375 380
Glu Arg Ala Gly Gly Leu Gly Ala Glu Glu Thr Pro Pro Thr Ser Val
385 390 395 400
Ser Glu Ser Leu Pro Thr Leu Ser Asp Ser Asp Pro Val Pro Leu Ala
405 410 415
Pro Gly Ala Ala Asp Ser Asp Glu Asp Thr Glu Gly Phe Gly Val Pro
420 425 430
Arg His Asp Pro Leu Pro Asp Pro Leu Lys Val Pro Pro Pro Leu Pro
435 440 445
Asp Pro Ser Ser Ile Cys Met Val Asp Pro Glu Met Leu Pro Pro Lys
450 455 460
Thr Ala Arg Gln Thr Glu Asn Val Ser Arg Thr Arg Lys Pro Leu Ala
465 470 475 480
Arg Pro Asn Ser Arg Ala Ala Ala Pro Lys Ala Thr Pro Val Ala Ala
485 490 495
Ala Lys Thr Lys Gly Leu Ala Gly Gly Asp Arg Ala Ser Arg Pro Leu
500 505 510
Ser Ala Arg Ser Glu Pro Ser Glu Lys Gly Gly Arg Ala Pro Leu Ser
515 520 525
Arg Lys Ser Ser Thr Pro Lys Thr Ala Thr Arg Gly Pro Ser Gly Ser
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Ala Ser Ser Arg Pro Gly Val Ser Ala Thr Pro Pro Lys Ser Pro Val
545 550 555 560
Tyr Leu Asp Leu Ala Tyr Leu Pro Ser Gly Ser Ser Ala His Leu Val
565 570 575

0050450

Asp Glu Glu Phe Phe Gln Arg Val Arg Ala Leu Cys Tyr Val Ile Ser
580 585 590
Gly Gln Asp Gln Arg Lys Glu Glu Gly Met Arg Ala Val Leu Asp Ala
595 600 605
Leu Leu Ala Ser Lys Gln His Trp Asp Arg Asp Leu Gln Val Thr Leu
610 615 620
Ile Pro Thr Phe Asp Ser Val Ala Met His Thr Trp Tyr Ala Glu Thr
625 630 635 640
His Ala Arg His Gln Ala Leu Gly Ile Thr Val Leu Gly Ser Asn Gly
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<211> 1418
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (122)..(1354)

<400> 11843
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<211> 411
<212> PRT
<213> Homo sapiens

<400> 11844

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Gln Leu Phe Lys Lys Phe Lys Glu Ile Tyr Val Gln Ala Pro Arg Ser
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35 40 45

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65 70 75 80
Gln Lys Glu Val Phe Ser Leu Ala Gly Pro Val Val Ser Met Ala Gly
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His Gly Glu Gln Leu Phe Ile Val Tyr His Arg Gly Thr Gly Phe Asp
100 105 110
Gly Asp Gln Cys Leu Gly Val Gln Leu Leu Glu Leu Gly Lys Lys Lys
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Lys Gln Ile Leu His Gly Asp Pro Leu Pro Leu Thr Arg Lys Ser Tyr
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Leu Ala Trp Ile Gly Phe Ser Ala Glu Gly Thr Pro Cys Tyr Val Asp
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Thr Pro Ile Cys Asn Thr Arg Glu His Cys Lys Gly Lys Ser Asp His
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Tyr Trp Val Val Gly Ile His Glu Asn Pro Gln Gln Leu Arg Cys Ile
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Pro Cys Lys Gly Ser Arg Phe Pro Pro Thr Leu Pro Arg Pro Ala Val
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Ala Ile Leu Ser Phe Lys Leu Pro Tyr Cys Gln Ile Ala Thr Glu Lys
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Gly Gln Met Glu Glu Gln Phe Trp Arg Ser Val Ile Phe His Asn His
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Glu Asp Phe Arg Lys Lys Leu Asn Ala Gly Tyr Ser Asn Thr Ala Thr
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Asp Ser Gly Glu Ala Asp Asp Glu Glu Lys Pro Glu Ile His Lys Pro
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Glu Asn Leu Lys Asn Val Leu Ser Glu Thr Pro Ala Ile Cys Pro Pro
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<400> 11857

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Ser Val Leu Cys Tyr Asp His Ala Leu Gln Ala Arg Pro Gly Phe Glu
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Gln Ala Ile Lys Arg Lys His Ala Val Leu Cys Gln Gln Lys Leu Glu
                 85                  90                  95
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            100                 105                 110
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        115                 120                 125
Ile Leu Glu Lys His Lys Leu Ile Gln Glu Glu Gln Ile Leu Arg Asn
    130                 135                 140
Ile Ile His Glu Thr Gln Met Ala Lys Glu Ala Gln Leu Gly Asn His
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Cys Thr Glu Ser Tyr Pro Arg Val Pro Val Gly Gly Glu Leu Pro Thr
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Lys Gly Asp His Lys Lys Thr Pro Gly Lys Lys Val Glu Thr Gly Gln
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<213> Homo sapiens

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<222> (56)..(1747)

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Arg Pro Gly Ala Leu Tyr Ser Gly Leu Met Arg Leu Ser Lys Lys Tyr
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Gly Pro Val Phe Thr Ile Tyr Leu Gly Pro Trp Arg Pro Val Val Val
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85 90 95
Glu Phe Ser Gly Arg Gly Thr Val Ala Met Leu Glu Gly Thr Phe Asp
100 105 110
Gly His Gly Val Phe Phe Ser Asn Gly Glu Arg Trp Arg Gln Leu Arg
115 120 125
Lys Phe Thr Met Leu Ala Leu Arg Asp Leu Gly Met Gly Lys Arg Glu
130 135 140

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Gln Gly Thr Glu Gly Arg Pro Phe Asp Pro Ser Leu Leu Leu Ala Gln
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Ala Thr Ser Asn Val Val Cys Ser Leu Leu Phe Gly Leu Arg Phe Ser
180 185 190
Tyr Glu Asp Lys Glu Phe Gln Ala Val Val Arg Ala Ala Gly Gly Thr
195 200 205
Leu Leu Gly Val Ser Ser Gln Gly Gly Gln Thr Tyr Glu Met Phe Ser
210 215 220
Trp Phe Leu Arg Pro Leu Pro Gly Pro His Lys Gln Leu Leu His His
225 230 235 240
Val Ser Thr Leu Ala Ala Phe Thr Val Arg Gln Val Gln Gln His Gln
245 250 255
Gly Asn Leu Asp Ala Ser Gly Pro Ala Arg Asp Leu Val Asp Ala Phe
260 265 270
Leu Leu Lys Met Ala Gln Glu Glu Gln Asn Pro Gly Thr Glu Phe Thr
275 280 285
Asn Lys Asn Met Leu Met Thr Val Ile Tyr Leu Leu Phe Ala Gly Thr
290 295 300
Met Thr Val Ser Thr Thr Val Gly Tyr Thr Leu Leu Leu Leu Met Lys
305 310 315 320
Tyr Pro His Val Gln Lys Trp Val Arg Glu Glu Leu Asn Arg Glu Leu
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Thr Asp Ala Val Leu His Glu Ala Gln Arg Leu Leu Ala Leu Val Pro
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Met Gly Ile Pro Arg Thr Leu Met Arg Thr Thr Arg Phe Arg Gly Tyr
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405 410 415
Phe Leu Asp Ala Asp Gly Arg Phe Arg Lys His Glu Ala Phe Leu Pro
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<212> DNA
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Glu Leu Phe Thr Ser Ile Ser Glu Ile Phe Ser Asp Leu Asp Pro Asp
50 55 60
Val Val Tyr Leu Met Leu Ser Glu Cys Asp Phe Lys Val Glu Asn Ala
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100 105 110
Glu Ser Lys Ile Met Glu Lys Arg Pro Glu Glu Glu Ser Glu Asp Ser
115 120 125
Lys Met Asp Ser Phe Leu Asp Met Gln Leu Thr Glu Asp Leu Asp Ser
130 135 140
Leu Ile Gln Asn Ala Phe Glu Lys Leu Asn Ser Ser Pro Asp Asp Gln
145 150 155 160
Val Tyr Ser Phe Leu Pro Ser Gln Asp Val Asn Ser Phe Asn Asp Ser
165 170 175
Ser Glu Phe Ile Asn Pro Asp Ser Ser Asn Met Thr Pro Ile Phe Ser
180 185 190
Thr Gln Asn Met Asn Leu Asn Gly Glu Asn Leu Glu Asn Ser Gly Ser
195 200 205
Thr Leu Ser Leu Asn Pro Leu Pro Ser His Ser Val Leu Asn Glu Ser
210 215 220
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Glu Asp Ser Leu Leu Ser Ser Ser Leu Asn Val Ala Ser Asp Ser Ile

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Thr Gly Gly Asp Gln Lys Ser Thr Arg Val Ser Asp Val Phe Leu Pro
305                 310                 315                 320
Ser Glu Gly Phe Asn Phe Lys Pro His Lys His Pro Glu Leu Pro Thr
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Lys Gly Lys Asp Val Ser Tyr Cys Pro Val Leu Ala Pro Leu Pro Leu
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        355                 360                 365
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385                 390                 395                 400
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<213> Homo sapiens

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Leu Thr His Leu Leu Met Gly Leu Ala Ser Gly Arg Ile Ile Leu Ile
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Arg Pro Pro Leu Ser Gly Ala Leu Ala Ser Ile Thr Glu Thr Ile Gln
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<400> 11866

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His Arg His Asp Asn Arg His Arg Asn Met Leu Ile Arg Lys Gly Ile
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DOCKET.COM

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Ala Arg Pro Trp Trp Ile Arg Met Gly Thr Asp Ile Cys Tyr Tyr Lys
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Cys His Phe Arg Asn Arg Pro Tyr Val Phe Leu Ser Ala Arg Val His
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Pro Gly Glu Thr Asn Ala Ser Trp Val Met Lys Gly Thr Leu Glu Tyr
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Phe Lys Ile Val Pro Met Leu Asn Pro Asp Gly Val Ile Asn Gly Asn
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DOCKET ALARM

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Lys Arg Lys Ala Gly Lys Lys Asp Arg Arg
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<212> DNA
<213> Homo sapiens

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<222> (98)..(700)

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<213> Homo sapiens

<400> 11874

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<212> DNA
<213> Homo sapiens

<220>
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<222> (251)..(2377)

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<212> PRT
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Leu Gln Cys Ala Val Phe Asp Lys Thr Leu Ala Glu Leu Lys Thr Arg
50 55 60
Val Glu Lys Ile Glu Cys Asn Lys Arg His Lys Thr Val Leu Thr Glu
65 70 75 80
Leu Gln Ala Lys Ile Ala Arg Leu Thr Lys Arg Phe Glu Ala Ala Lys
85 90 95
Glu Asp Leu Lys Lys Arg His Glu His Pro Pro Asn Pro Pro Val Ser
100 105 110
Pro Gly Lys Thr Val Asn Asp Val Asn Ser Asn Asn Asn Met Ser Tyr
115 120 125
Arg Asn Ala Gly Thr Val Arg Gln Met Leu Glu Ser Lys Arg Asn Val
130 135 140
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145 150 155 160
Ser Thr Asn Leu Val Thr Pro Pro Ala Val Val Ser Ser Gln Pro Lys
165 170 175
Leu Gln Thr Pro Val Thr Ser Gly Ser Leu Thr Ala Thr Ser Val Leu
180 185 190
Pro Ala Pro Asn Thr Ala Thr Val Val Ala Thr Thr Gln Val Pro Ser
195 200 205
Gly Asn Pro Gln Pro Thr Ile Ser Leu Gln Pro Leu Pro Val Ile Leu
210 215 220
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Pro Gly Thr Leu Val Thr Asn Gln Pro Ser Gly Asn Val Glu Phe Ile
245 250 255
Ser Val Gln Ser Pro Pro Thr Val Ser Gly Leu Thr Lys Asn Pro Val
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Tyr Ser Pro Ser Thr Asn Arg Gly Pro Ile Gln Met Lys Ile Pro Ile
            340                 345                 350
Ser Ala Phe Ser Thr Ser Ser Ala Ala Glu Gln Asn Ser Asn Thr Thr
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Pro Arg Ile Glu Asn Gln Thr Asn Lys Thr Ile Asp Ala Ser Val Ser
    370                 375                 380
Lys Lys Ala Ala Asp Ser Thr Ser Gln Cys Gly Lys Ala Thr Gly Ser
385                 390                 395                 400
Asp Ser Ser Gly Val Ile Asp Leu Thr Met Asp Asp Glu Glu Ser Gly
                405                 410                 415
Ala Ser Gln Asp Pro Lys Lys Leu Asn His Thr Pro Val Ser Thr Met
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Ser Ser Ser Gln Pro Val Ser Arg Pro Leu Gln Pro Ile Gln Pro Ala
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Pro Pro Leu Gln Pro Ser Gly Val Pro Thr Ser Gly Pro Ser Gln Thr
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Ala Asn His Gln Val Val Tyr Thr Thr Leu Pro Ala Pro Pro Ala Gln
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        515                 520                 525
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    530                 535                 540
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        595                 600                 605
Arg Val Gln Ser Gln Asn Gly Ile Val Leu Ser Trp Gly Val Leu Glu
    610                 615                 620
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His Glu Glu Pro Ser Ala Thr Val Pro Ser Gln Trp Lys Lys Ile Gly
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<210> 11877
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (346)..(1086)

<400> 11877

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<211> 247
<212> PRT
<213> Homo sapiens

<400> 11878

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<212> DNA
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50 55 60
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Ala	Pro	Pro	Gly	Lys	Arg	Thr	Val	Gly	Asp	Gln	Met	Lys	Lys	Asn	Gln
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Ala	Ala	Asp	Asp	Asp	Asp	Glu	Asp	Leu	Asn	Asp	Thr	Asn	Tyr	Asp	Glu
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Phe	Asn	Gly	Tyr	Ala	Gly	Ser	Leu	Phe	Ser	Ser	Gly	Pro	Tyr	Glu	Lys
				85					90					95	
Asp	Asp	Glu	Glu	Ala	Asp	Ala	Ile	Tyr	Ala	Ala	Leu	Asp	Lys	Arg	Met
			100					105					110		
Asp	Glu	Arg	Arg	Lys	Glu	Arg	Arg	Glu	Gln	Arg	Glu	Lys	Glu	Glu	Ile
		115					120					125			
Glu	Lys	Tyr	Arg	Met	Glu	Arg	Pro	Lys	Ile	Gln	Gln	Gln	Phe	Ser	Asp
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Leu	Lys	Arg	Lys	Leu	Ala	Glu	Val	Thr	Glu	Glu	Glu	Trp	Leu	Ser	Ile
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Pro	Glu	Val	Gly	Asp	Ala	Arg	Asn	Lys	Arg	Gln	Arg	Asn	Pro	Arg	Tyr
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Glu	Lys	Leu	Thr	Pro	Val	Pro	Asp	Ser	Phe	Phe	Ala	Lys	His	Leu	Gln
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Thr	Gly	Glu	Asn	His	Thr	Ser	Val	Asp	Pro	Arg	Gln	Thr	Gln	Phe	Gly

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Arg Lys Ile Gly Gln Ala Arg Asn Thr Leu Met Asp Met Arg Leu Ser
                245                 250                 255
Gln Val Ser Asp Ser Val Ser Gly Gln Thr Val Val Asp Pro Lys Gly
            260                 265                 270
Tyr Leu Thr Asp Leu Asn Ser Met Ile Pro Thr Arg Gly Gly Asp Ile
        275                 280                 285
Asn Asp Ile Lys Lys Ala Arg Leu Leu Leu Lys Ser Val Arg Glu Thr
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Asn Pro His His Pro Pro Ala Trp Ile Ala Ser Ala Arg Leu Glu Glu
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Val Thr Gly Lys Leu Gln Val Ala Arg Asn Leu Ile Met Lys Gly Thr
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Glu Met Cys Pro Lys Ser Glu Asp Val Trp Leu Glu Ala Ala Arg Leu
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Gln Pro Gly Asp Thr Ala Lys Ala Val Val Ala Gln Ala Val Arg His
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Asp Ile Arg Ala Lys Lys Arg Val Leu Arg Lys Ala Leu Glu His Val
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Pro Asn Ser Val Arg Leu Trp Lys Ala Ala Val Glu Leu Glu Glu Pro
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Glu Asp Ala Arg Ile Met Leu Ser Arg Ala Val Glu Cys Cys Pro Thr
            420                 425                 430
Ser Val Glu Leu Trp Leu Ala Leu Ala Arg Leu Glu Thr Tyr Glu Asn
        435                 440                 445
Ala Arg Lys Val Leu Asn Lys Ala Arg Glu Asn Ile Pro Thr Asp Arg
    450                 455                 460
His Ile Trp Ile Thr Ala Ala Lys Leu Glu Glu Ala Asn Gly Asn Thr
465                 470                 475                 480
Gln Met Val Glu Lys Ile Ile Asp Arg Ala Ile Thr Ser Leu Arg Ala
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Cys Asp Arg Ala Gly Ser Val Ala Thr Cys Gln Ala Val Met Arg Ala
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Val Ile Gly Ile Gly Ile Glu Glu Glu Asp Arg Lys His Thr Trp Met
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Trp Leu Arg Ala Ala Tyr Phe Glu Lys Asn His Gly Thr Arg Glu Ser
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Pro Ala Ala Arg Ser Ile Leu Ala Leu Ala Phe Gln Val Phe Met Lys
625                 630                 635                 640
Ser Val Lys Leu Glu Trp Val Gln Asp Asn Ile Arg Ala Ala Gln Asp
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Leu Cys Glu Glu Ala Leu Arg His Tyr Glu Asp Phe Pro Lys Leu Trp
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Met Met Lys Gly Gln Ile Glu Glu Gln Lys Glu Met Met Glu Lys Ala
        675                 680                 685
Arg Glu Ala Tyr Asn Gln Gly Leu Lys Lys Cys Pro His Ser Thr Pro
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705                 710                 715                 720
Arg Ala Arg Ala Ile Leu Glu Lys Ser Arg Leu Lys Asn Pro Lys Asn
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Pro Gly Leu Trp Leu Glu Ser Val Arg Leu Glu Tyr Arg Ala Gly Leu
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Lys Asn Ile Ala Asn Thr Leu Met Ala Lys Ala Leu Gln Glu Cys Pro
        755                 760                 765
Asn Ser Gly Ile Leu Trp Ser Glu Ala Ile Phe Leu Glu Ala Arg Pro
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Gln Arg Arg Thr Lys Ser Val Asp Ala Leu Lys Lys Cys Glu His Asp
785                 790                 795                 800
Pro His Val Leu Leu Ala Val Ala Lys Leu Phe Trp Ser Gln Arg Lys
                805                 810                 815
Ile Thr Lys Ala Arg Glu Trp Phe His Arg Thr Val Lys Ile Asp Ser
            820                 825                 830
Asp Leu Gly Asp Ala Trp Ala Phe Phe Tyr Lys Phe Glu Leu Gln His
        835                 840                 845
Gly Thr Glu Glu Gln Gln Glu Glu Val Arg Lys Arg Cys Glu Ser Ala
    850                 855                 860
Glu Pro Arg His Gly Glu Leu Trp Cys Ala Val Ser Lys Asp Ile Ala
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ggaaataaaa tcgataagga aaatcgtgaa gtcgatagaa atgaaggcct gaaatttgca 420
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<213> Homo sapiens

<400> 11887

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			20					25					30		
Phe	Asp	Pro	Glu	Leu	Ala	Ala	Thr	Ile	Gly	Val	Asp	Phe	Lys	Val	Lys
		35					40					45			
Thr	Ile	Ser	Val	Asp	Gly	Asn	Lys	Ala	Lys	Leu	Ala	Ile	Trp	Asp	Thr
	50					55					60				
Ala	Gly	Gln	Glu	Arg	Phe	Arg	Thr	Leu	Thr	Pro	Ser	Tyr	Tyr	Arg	Gly
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Ala	Gln	Gly	Val	Ile	Leu	Val	Tyr	Asp	Val	Thr	Arg	Arg	Asp	Thr	Phe
				85					90					95	
Val	Lys	Leu	Asp	Asn	Trp	Leu	Asn	Glu	Leu	Glu	Thr	Tyr	Cys	Thr	Arg
			100					105					110		
Asn	Asp	Ile	Val	Asn	Met	Leu	Val	Gly	Asn	Lys	Ile	Asp	Lys	Glu	Asn
		115					120					125			
Arg	Glu	Val	Asp	Arg	Asn	Glu	Gly	Leu	Lys	Phe	Ala	Arg	Lys	His	Ser
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Met	Leu	Phe	Ile	Glu	Ala	Ser	Ala	Lys	Thr	Cys	Asp	Gly	Val	Gln	Cys
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Ala	Phe	Glu	Glu	Leu	Val	Glu	Lys	Ile	Ile	Gln	Thr	Pro	Gly	Leu	Trp
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Glu	Ser	Glu	Asn	Gln	Asn	Lys	Gly	Val	Lys	Leu	Ser	His	Arg	Glu	Glu
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<222> (286)..(2514)

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<212> PRT
<213> Homo sapiens

<400> 11889

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Leu Ala Cys Glu Asp Leu Glu Leu Asn Pro Phe Asp Gly Leu Pro Tyr
         35                  40                  45
Ser Ser Arg Tyr Tyr Lys Leu Leu Lys Glu Arg Glu Asp Leu Pro Ile
     50                  55                  60
Trp Lys Glu Lys Tyr Ser Phe Met Glu Asn Leu Leu Gln Asn Gln Ile
 65                  70                  75                  80
Val Ile Val Ser Gly Asp Ala Lys Cys Gly Lys Ser Ala Gln Val Pro
                 85                  90                  95
Gln Trp Cys Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly
            100                 105                 110
Val Ile Cys Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu
        115                 120                 125
Arg Val Ala Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr
    130                 135                 140
Val Ile Pro Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Tyr
145                 150                 155                 160
Cys Thr Asp Asp Met Leu Gln Arg Glu Met Val Ser Asn Pro Phe Leu
                165                 170                 175
Gly Ser Tyr Gly Val Ile Ile Leu Asp Asp Ile His Glu Arg Ser Ile
            180                 185                 190
Ala Thr Asp Val Leu Leu Gly Leu Leu Lys Asp Val Leu Leu Ala Arg
        195                 200                 205
Pro Glu Leu Lys Leu Ile Ile Asn Ser Ser Pro His Leu Ile Ser Lys
    210                 215                 220
Leu Asn Ser Tyr Tyr Gly Asn Val Pro Val Ile Glu Val Lys Asn Lys
225                 230                 235                 240
His Pro Val Glu Val Val Tyr Leu Ser Glu Ala Gln Lys Asp Ser Phe
                245                 250                 255
Glu Ser Ile Leu Arg Leu Ile Phe Glu Ile His His Ser Gly Glu Lys
            260                 265                 270
Gly Asp Ile Val Val Phe Leu Ala Cys Glu Gln Asp Ile Glu Lys Val
        275                 280                 285
Cys Glu Thr Val Tyr Gln Gly Ser Asn Leu Asn Pro Asp Leu Gly Glu
    290                 295                 300
Leu Val Val Val Pro Leu Tyr Pro Lys Glu Lys Cys Ser Leu Phe Lys
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0082470 5 5 2 3 4 5 0

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Arg Phe Val Ile Asp Val Gly Val Glu Arg Arg Lys Val Tyr Asn Pro
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Arg Ile Arg Ala Asn Ser Leu Val Met Gln Pro Ile Ser Gln Ser Gln
    370                 375                 380
Ala Glu Ile Arg Lys Gln Ile Leu Gly Ser Ser Ser Ser Gly Lys Phe
385                 390                 395                 400
Phe Cys Leu Tyr Thr Glu Glu Phe Ala Ser Lys Asp Met Thr Pro Leu
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Lys Pro Ala Glu Met Gln Glu Ala Asn Leu Thr Ser Met Val Leu Phe
            420                 425                 430
Met Lys Arg Ile Asp Ile Ala Gly Leu Gly His Cys Asp Phe Met Asn
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465                 470                 475                 480
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            500                 505                 510
Val Thr Ala Pro Asn Cys Phe Ser His Val Pro His Gly Ala Glu Glu
        515                 520                 525
Ala Ala Leu Thr Cys Trp Lys Thr Phe Leu His Pro Glu Gly Asp His
    530                 535                 540
Phe Thr Leu Ile Ser Ile Tyr Lys Ala Tyr Gln Asp Thr Thr Leu Asn
545                 550                 555                 560
Ser Ser Ser Glu Tyr Cys Val Glu Lys Trp Cys Arg Asp Tyr Phe Leu
                565                 570                 575
Asn Cys Ser Ala Leu Arg Met Ala Asp Val Ile Arg Ala Glu Leu Leu
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Glu Ile Ile Lys Arg Ile Glu Leu Pro Tyr Ala Glu Pro Ala Phe Gly
        595                 600                 605
Ser Lys Glu Asn Thr Leu Asn Ile Lys Lys Ala Leu Leu Ser Gly Tyr
    610                 615                 620
Phe Met Gln Ile Ala Arg Asp Val Asp Gly Ser Gly Asn Tyr Leu Met
625                 630                 635                 640
Leu Thr His Lys Gln Val Ala Gln Leu His Pro Leu Ser Gly Tyr Ser
                645                 650                 655
Ile Thr Lys Lys Met Pro Glu Trp Val Leu Phe His Lys Phe Ser Ile
            660                 665                 670
Ser Glu Asn Asn Tyr Ile Arg Ile Thr Ser Glu Ile Ser Pro Glu Leu
        675                 680                 685
Phe Met Gln Leu Val Pro Gln Tyr Tyr Phe Ser Asn Leu Pro Pro Ser
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    690                 695                 700
Glu Ser Lys Asp Ile Leu Gln Gln Val Val Asp His Leu Ser Pro Val
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<212> DNA
<213> Homo sapiens

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<222> (149)..(1276)

<400> 11890

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Leu Ile Phe Pro Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly Cys
50 55 60

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Val Asn Asp Pro Ser Pro Val Pro Ser Ser Ser Ser Thr Tyr His Ala
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Ile Ile Gly Gly Ile Val Ala Phe Ile Val Phe Leu Leu Leu Ile Met
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Leu Ile Phe Leu Gly His Tyr Leu Ile Arg His Lys Gly Thr Tyr Leu
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Thr His Glu Ala Lys Gly Ser Asp Asp Ala Pro Asp Ala Asp Thr Ala
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Ile Ile Asn Ala Glu Gly Gly Gln Ser Gly Gly Asp Asp Lys Lys Glu
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (142)..(2265)

<400> 11897

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<212> PRT
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<400> 11898
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Ser Lys Arg Arg Arg Val Thr Asp Glu Arg Glu Leu Arg Ile Pro Leu
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Leu Gln Gly Glu Val Ala Tyr Tyr Ala Pro Cys Gly Lys Lys Leu Arg
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Gln Tyr Pro Glu Val Ile Lys Gly Met Gln Trp Cys Leu Leu Lys Glu
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Arg Ala Gln Gln Ile Leu Glu Ala Lys Lys Lys Lys Lys Glu Glu Ala
            260                 265                 270
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Arg Arg Gln His Met Met Leu Met Lys Ala Met Glu Ala Arg Lys Lys
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            340                 345                 350
Ala Lys Glu Leu Lys Lys Pro Asn Glu Asp Met Cys Leu Ala Asp Gln
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Lys Pro Leu Pro Glu Leu Pro Arg Ile Pro Gly Leu Val Leu Ser Gly
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Ser Thr Phe Ser Asp Cys Leu Met Val Val Gln Phe Leu Arg Asn Phe
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Gly Lys Val Leu Gly Phe Asp Val Asn Ile Asp Val Pro Asn Leu Ser
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Val Leu Gln Glu Gly Leu Leu Asn Ile Gly Asp Ser Met Gly Glu Val
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Gln Asp Leu Leu Val Arg Leu Leu Ser Ala Ala Val Cys Asp Pro Gly
        435                 440                 445
Leu Ile Thr Gly Tyr Lys Ala Lys Thr Ala Leu Gly Glu His Leu Leu
    450                 455                 460
Asn Val Gly Val Asn Arg Asp Asn Val Ser Glu Ile Leu Gln Ile Phe
465                 470                 475                 480
Met Glu Ala His Cys Gly Gln Thr Glu Leu Thr Glu Ser Leu Lys Thr
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Lys Ala Phe Gln Ala His Thr Pro Ala Gln Lys Ala Ser Val Leu Ala
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Asp Lys Asn Ile Asp Tyr Met Ser Asn Leu Arg Arg Asp Lys Trp Val
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Val Glu Gly Lys Leu Arg Lys Leu Arg Ile Ile His Ala Lys Lys Thr
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Gly Lys Arg Asp Thr Ser Gly Gly Ile Asp Leu Gly Glu Glu Gln His
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Phe Val Gln Phe Asn Asp Gln Phe Phe Trp Gly Gln Leu Glu Ala Val
     50                  55                  60
Glu Val Lys Trp Ser Val Arg Met Thr Leu Cys Ala Gly Ile Cys Ser
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Tyr Glu Gly Lys Gly Gly Met Cys Ser Ile Arg Leu Ser Glu Pro Leu
                 85                  90                  95
Leu Lys Leu Arg Pro Arg Lys Asp Leu Val Glu Thr Leu Leu His Glu
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Met Ile His Ala Tyr Leu Phe Val Thr Asn Asn Asp Lys Asp Arg Glu
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Ala His Asp Tyr Trp Trp Ala Glu His Gln Lys Thr Cys Gly Gly Thr
        195                 200                 205
Tyr Ile Lys Ile Lys Glu Pro Glu Asn Tyr Ser Lys Lys Gly Lys Gly
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225                 230                 235                 240
Lys Pro Asn Arg Gly Glu Ala Gln Leu Val Ile Pro Phe Ser Gly Lys
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Gly Tyr Val Leu Gly Glu Thr Ser Asn Leu Pro Ser Pro Gly Lys Leu
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Ile Thr Ser His Ala Ile Asn Lys Thr Gln Asp Leu Leu Asn Gln Asn
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Ser Asn Ser His Gln Asn Val Leu Ser Asn Tyr Phe Pro Arg Val Ser
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Phe Ala Asn Gln Lys Ala Phe Arg Gly Val Asn Gly Ser Pro Arg Ile
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Ser Val Thr Val Gly Asn Ile Pro Lys Asn Ser Val Ser Ser Ser Ser
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Gln Arg Arg Val Ser Ser Ser Lys Ile Ser Leu Arg Asn Ser Ser Lys
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Val Thr Glu Ser Ala Ser Val Met Pro Ser Gln Asp Val Ser Gly Ser
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Glu Asp Thr Phe Pro Asn Lys Arg Pro Arg Leu Glu Asp Lys Thr Val
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<212> PRT
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35 40 45
Ala Leu Ile Ser Ser Leu Gly Cys Trp Cys Gly Ser Lys Asp Glu Glu
50 55 60
Ala Pro Cys Lys Gln Arg Ile Ser Val Gln Arg Glu Ser Gln Ser Arg
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Cys Gly Leu Ile Leu Glu Asp Val Phe His Phe Ala Asp His Gln Glu
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Thr His His Lys Gln Lys Leu Asn Arg Ser Gly Ala Cys Gly Lys Asn
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            180                 185                 190
Glu Lys Thr Asp Ser Glu Thr Met His Gly Pro Pro Phe Gln Glu Gly
        195                 200                 205
Lys Thr Asn Tyr Ser Cys Gly Lys Arg Thr Lys Ala Phe Ser Thr Lys
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His Ser Val Ile Pro His Gln Lys Leu Phe Thr Arg Asp Gly Cys Tyr
225                 230                 235                 240
Val Cys Ser Asp Cys Gly Lys Ser Phe Ser Arg Tyr Val Ser Phe Ser
                245                 250                 255
Asn His Gln Arg Asp His Thr Ala Lys Gly Pro Tyr Asp Cys Gly Glu
            260                 265                 270
Cys Gly Lys Ser Tyr Ser Arg Lys Ser Ser Leu Ile Gln His Gln Arg
        275                 280                 285
Val His Thr Gly Gln Thr Ala Tyr Pro Cys Glu Glu Cys Gly Lys Ser
    290                 295                 300
Phe Ser Gln Lys Gly Ser Leu Ile Ser His Gln Leu Val His Thr Gly
305                 310                 315                 320
Glu Gly Pro Tyr Glu Cys Arg Glu Cys Gly Lys Ser Phe Gly Gln Lys
                325                 330                 335
Gly Asn Leu Ile Gln His Gln Gln Gly His Thr Gly Glu Arg Ala Tyr
            340                 345                 350
His Cys Gly Glu Cys Gly Lys Ser Phe Arg Gln Lys Phe Cys Phe Ile
        355                 360                 365
Asn His Gln Arg Val His Thr Gly Glu Arg Pro Tyr Lys Cys Gly Glu
    370                 375                 380
Cys Gly Lys Ser Phe Gly Gln Lys Gly Asn Leu Val His His Gln Arg
385                 390                 395                 400
Gly His Thr Gly Glu Arg Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ser
                405                 410                 415
Phe Arg Tyr Arg Ser His Leu Thr Glu His Gln Arg Leu His Thr Gly
            420                 425                 430
Glu Arg Pro Tyr Asn Cys Arg Glu Cys Gly Lys Leu Phe Asn Arg Lys
        435                 440                 445
Tyr His Leu Leu Val His Glu Arg Val His Thr Gly Glu Arg Pro Tyr
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Ala Cys Glu Val Cys Gly Lys Leu Phe Gly Asn Lys His Ser Val Thr
465                 470                 475                 480
Ile His Gln Arg Ile His Thr Gly Glu Arg Pro Tyr Glu Cys Ser Glu
                485                 490                 495
Cys Gly Lys Ser Phe Leu Ser Ser Ser Ala Leu His Val His Lys Arg
            500                 505                 510
Val His Ser Gly Gln Lys Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ser
        515                 520                 525
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Phe Ser Glu Cys Ser Ser Leu Ile Lys His Arg Arg Ile His Thr Gly
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Glu Arg Pro Tyr Glu Cys Thr Lys Cys Gly Lys Thr Phe Gln Arg Ser
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Ser Thr Leu Leu His His Gln Ser Ser His Arg Arg Lys Ala Leu
565 570 575

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<211> 2263
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (774)..(1079)

<400> 11903
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gctactcggg aggctgaggc aggagaatcg cttgaacccg ggaggcggag gctgcagtga 480
gccgagatca tgccactgca ctccagcctg ggtgacagag cgggactctg tctccaaaaa 540
aagaaaagcc acacaggtgt gtgtgtaggg gcaagggagt ttcctactgt cttcctagca 600
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<211> 102
<212> PRT
<213> Homo sapiens

<400> 11904
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20 25 30
Lys Leu Leu Leu Val Gln Arg Ser Pro Thr Phe Leu Ala Thr Gly Ser
35 40 45
Ile Phe Leu Glu Asp His Phe Ser Met Glu Arg Glu Gly Gly Ala Gly
50 55 60
Phe Gly Met Glu Val Phe His Leu Pro Ser Ser Gly Ile Ser Gln Thr
65 70 75 80
Leu Leu Arg Ser Thr Gln Asn Leu His Ser Trp Arg Ala Gln Phe Thr
85 90 95
Gly Gly Leu Leu Leu Leu
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<210> 11905
<211> 2604
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (292)..(1140)

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tctcctgccc catcatctga cgttcggtct acaaatggca cagcagaatg caaaactgta 180
aagaggccag cagaggatac tgatagggaa acagtcgcag gaattccgaa taaagtagga 240
gttagaattg ttacaatcag tgaccccaac aatgctggct gcagcgcaac aatggttgct 300
gtgccagcag gagcagatcc aagcactgta gctaaagtag caatagaaag tgctgttcag 360

caaaagcaac agcatccacc aacatatgta cagaatgtgg tcccgcagaa cactcctatg 420
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<210> 11906
<211> 283
<212> PRT
<213> Homo sapiens

<400> 11906
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        35                  40                  45
Val Gln Val Gln Gly Gln Pro Asn Ser Ser Gln Pro Ser Pro Phe Ser
    50                  55                  60
Gly Ser Ser Gln Pro Gly Asp Pro Met Arg Lys Pro Gly Gln Asn Phe
65                  70                  75                  80
Met Cys Leu Trp Gln Ser Cys Lys Lys Trp Phe Gln Thr Pro Ser Gln
                85                  90                  95
Val Phe Tyr His Ala Ala Thr Glu His Gly Gly Lys Asp Val Tyr Pro
            100                 105                 110
Gly Gln Cys Leu Trp Glu Gly Cys Glu Pro Phe Gln Arg Gln Arg Phe
        115                 120                 125
Ser Phe Ile Thr His Leu Gln Asp Lys His Cys Ser Lys Asp Ala Leu
    130                 135                 140
Leu Ala Gly Leu Lys Gln Asp Glu Pro Gly Gln Ala Gly Ser Gln Lys
145                 150                 155                 160
Ser Ser Thr Lys Gln Pro Thr Val Gly Gly Thr Ser Ser Thr Pro Arg
                165                 170                 175
Ala Gln Lys Ala Ile Val Asn His Pro Ser Ala Ala Leu Met Ala Leu
            180                 185                 190
Arg Arg Gly Ser Arg Asn Leu Val Phe Arg Asp Phe Thr Asp Glu Lys
        195                 200                 205
Glu Gly Pro Ile Thr Lys His Ile Arg Leu Thr Ala Ala Leu Ile Leu
    210                 215                 220
Lys Asn Ile Gly Lys Tyr Ser Glu Cys Gly Arg Arg Leu Leu Lys Arg
225                 230                 235                 240
His Glu Asn Asn Leu Ser Val Leu Ala Ile Ser Asn Met Glu Ala Ser
                245                 250                 255
Ser Thr Leu Ala Lys Cys Leu Tyr Glu Leu Asn Phe Thr Val Gln Ser
            260                 265                 270
Lys Glu Gln Glu Lys Asp Ser Glu Met Leu Gln
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<210> 11907
<211> 3434
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (184)..(1869)

<400> 11907
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<210> 11908
<211> 562
<212> PRT
<213> Homo sapiens

<400> 11908
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Lys Met Arg Thr Ala His Tyr Pro Thr Pro Ala Glu Leu Asp Ala Tyr
35 40 45
Ala Lys Lys Val Ala Asn Asn Pro Leu Thr Ile Lys Ile Phe Pro Asn
50 55 60
Ser Val Lys Val Pro Gln Arg Lys His Val Arg Arg Thr Val Asn Gly
65 70 75 80
Leu Asp Thr Ser Ala Gln Arg Tyr Ser Pro Tyr Pro Thr Gln Ala Ala
85 90 95
Thr Lys Ala Gly Leu Leu Ala Ile Val Lys Val Pro Ala Lys Ser Ile
100 105 110
Leu Lys Asp Phe Asp Gly Thr Arg Ala Arg Leu Leu Pro Glu Ala Ile
115 120 125
Met Asn Pro Pro Val Ala Pro Tyr Ala Thr Val Ala Pro Ser Thr Leu
130 135 140
Ala His Pro Gln Ala Gln Ala Leu Ala Arg Gln Gln Ala Leu Gln His
145 150 155 160
Ala Gln Thr Leu Ala His Ala Pro Pro Gln Thr Leu Gln His Pro Gln
165 170 175
Gly Ile Pro Pro Pro Gln Ala Leu Ser His Pro Gln Ser Leu Gln Gln
180 185 190
Pro Gln Gly Leu Gly His Pro Gln Pro Met Ala Gln Thr Gln Gly Leu
195 200 205
Val His Pro Gln Ala Leu Ala His Gln Gly Leu Gln His Pro His Asn
210 215 220
Pro Leu Leu His Gly Gly Arg Lys Met Pro Asp Ser Asp Ala Pro Pro
225 230 235 240
Asn Val Thr Val Ser Thr Ser Thr Ile Pro Leu Ser Met Ala Ala Thr
245 250 255

0950450.0002800

Leu Gln His Ser Arg Pro Pro Asp Leu Ser Ser Ile Val His Gln Ile
260 265 270
Asn Gln Phe Cys Gln Thr Arg Ala Gly Ile Ser Thr Thr Ser Val Cys
275 280 285
Glu Gly Gln Ile Ala Asn Pro Ser Pro Ile Ser Arg Ser Leu Leu Ile
290 295 300
Asn Ala Ser Thr Arg Val Ser Thr His Ser Val Pro Thr Pro Met Pro
305 310 315 320
Ser Cys Val Val Asn Pro Met Glu His Thr His Ala Ala Thr Ala Ala
325 330 335
Leu Pro Ala Ala Gly Pro Val Asn Leu Pro Thr Gly Ile Ser Arg Val
340 345 350
Pro Thr Gly Tyr Pro Ser Asp Leu Lys Pro Val Thr Trp Asn Gln His
355 360 365
Gln Leu Ala His Leu Gln Gln Met Cys Ser Glu Ala Ser Gly Thr Pro
370 375 380
Ala Pro Gly Leu Thr Gly Lys His Ala Ala Gly Arg Glu Leu Ala Gly
385 390 395 400
Pro Gly Phe Val Gly Lys Ala Pro Ala Tyr Pro Gln Glu Leu Cys Leu
405 410 415
Ala Gln Ser Phe His Leu Lys Pro Pro Leu Glu Lys Pro Thr Pro Ser
420 425 430
Pro Pro Val Asn Gly Met Ala Ala Pro Leu Ala Tyr Pro Asn Gly His
435 440 445
Tyr Phe Gln Pro Leu Trp Asn Asn Ile Leu Pro Thr Pro Asn Ser Asp
450 455 460
Ser Ser Gly Ser Gln Asp Leu Ala Met Pro Phe His Gly Gly Gln Pro
465 470 475 480
Thr Gly Ala Pro Leu Asp Cys Ala Ala Ala Pro Gly Ala His Tyr Arg
485 490 495
Ala Gly Thr Gly Gly Gly Pro Val Ala Ser Gln Asn Ser Leu Met Gln
500 505 510
Thr Val Asp Tyr Leu Ser Gly Asp Phe Gln Gln Ala Cys Phe Arg Glu
515 520 525
Gln Ser Leu Ala Met Leu Ser Lys Ala His Arg Ala Pro Gly Asn Arg
530 535 540
Ala Pro Asp Pro Thr Glu Ser Arg Ser Leu His Ile Leu His Pro Gly
545 550 555 560
Tyr Arg

<210> 11909
<211> 2298
<212> DNA
<213> Homo sapiens

<220>

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<221> CDS
<222> (80)..(922)

<400> 11909
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Lys Ile Trp Ala Glu Leu Thr Gly Pro Asp Asp Gly Phe Tyr Leu Ser
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Gln Leu Lys Leu Glu Ile Tyr Ala Asp Leu Lys Lys Lys Tyr Lys Lys
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Ser Ala Asp Thr Cys Thr His Ala Tyr Trp Arg Gly Asn Cys Lys Lys
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Leu Cys Leu Ala Phe Leu Gly Lys Arg Leu Asp Ser Val Ile Glu Met
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Cys Val Lys Asp Val Leu Leu Lys Asp Asp Leu Ser Trp Ala Glu Ala
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Gly Val Ala Leu Leu Glu Asn Glu Cys Glu Lys Arg Ile Val Glu Glu
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Gly Lys Tyr Asn Thr Glu Glu Tyr Gly Thr Ser Ile Glu Asp Ile Leu
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Ser Val Leu Lys Cys Pro Asn Leu Cys Ser Gly Asn Gly Gln Cys Met
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Asp Ser Tyr Asp Lys Ala Pro Glu Ile Thr Glu Leu Gly Asn Ala Gly
180 185 190
Phe Cys Asp Val Gln Lys Tyr Asn Cys Met Met Val Arg Val Phe Gly
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Gln Tyr Asn Ser Ser Glu Trp Met Pro Gly Glu Pro Ile Tyr Thr Gln
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Gln Pro Pro Val Ile Gln Ala Leu Gln Asp Lys Leu Leu Thr Phe Tyr
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<213> Homo sapiens

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35 40 45
Val Ser Asn Ser Val Ser Asn Val Thr Ile Pro Ser Thr Pro Gln Ser
50 55 60
Val Gly Val Asn Thr Arg Arg Ser Ser Gln Ala Gly Asp Ile Ala Ala
65 70 75 80
Glu Lys Leu Val Pro Lys Pro Pro Pro Ala Lys Pro Ser Arg Pro Arg
85 90 95
Pro Lys Ser Arg Ile Ser Arg Tyr Arg Thr Ser Ser Ala Gln Arg Leu
100 105 110
Lys Arg Gln Lys Gln Ala Asn Ala Gln Gln Ala Glu Leu Ser Gln Ala

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Gly Ser Leu Asp Ser Ser Gly Glu Asn Arg Pro Leu Thr Gly Ser Asp
145                 150                 155                 160
Pro Thr Val Val Ser Ile Thr Gly Ser His Val Asn Arg Ala Ala Ser
                165                 170                 175
Lys Tyr Pro Lys Thr Lys Lys Tyr Leu Val Thr Glu Trp Leu Asn Asp
            180                 185                 190
Lys Ala Glu Lys Gln Glu Cys Pro Val Glu Cys Pro Leu Arg Ile Thr
        195                 200                 205
Thr Asp Pro Thr Val Leu Ala Thr Thr Leu Asn Met Leu Pro Gly Leu
    210                 215                 220
Ile His Ser Pro Leu Ile Cys Thr Thr Pro Lys His Tyr Ile Arg Phe
225                 230                 235                 240
Gly Ser Pro Phe Ile Pro Glu Arg Arg Arg Arg Pro Leu Leu Pro Asp
                245                 250                 255
Gly Thr Phe Ser Pro Cys Lys Lys Arg Trp Ile Lys Gln Ala Leu Glu
            260                 265                 270
Glu Gly Met Thr Gln Thr Ser Ser Val Pro Gln Glu Thr Arg Thr Gln
        275                 280                 285
His Leu Tyr Gln Ser Asn Glu Asn Ser Ser Ser Ser Ser Ile Cys Lys
    290                 295                 300
Asp Asn Ala Asp Leu Leu Ser Pro Leu Lys Lys Trp Lys Ser Arg Tyr
305                 310                 315                 320
Leu Met Glu Gln Asn Val Thr Lys Leu Leu Arg Pro Leu Ser Pro Val
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Thr Pro Pro Pro Pro Asn Ser Gly Ser Lys Ser Pro Gln Leu Ala Thr
            340                 345                 350
Pro Gly Ser Ser His Pro Gly Glu Glu Cys Arg Asn Gly Tyr Ser
        355                 360                 365
Leu Met Phe Ser Pro Val Thr Ser Leu Thr Thr Ala Ser Arg Cys Asn
    370                 375                 380
Thr Pro Leu Gln Phe Glu Leu Cys His Arg Lys Asp Leu Asp Leu Ala
385                 390                 395                 400
Lys Val Gly Tyr Leu Asp Ser Asn Thr Asn Ser Cys Ala Asp Arg Pro
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Ser Leu Leu Asn Ser Gly His Ser Asp Leu Ala Pro His Pro Ser Leu
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Gly Pro Thr Ser Glu Thr Gly Phe Pro Ser Arg Ser Gly Asp Gly His
        435                 440                 445
Gln Thr Leu Val Arg Asn Ser Asp Gln Ala Phe Arg Thr Glu Phe Asn
    450                 455                 460
Leu Met Tyr Ala Tyr Ser Pro Leu Asn Ala Met Pro Arg Ala Asp Gly
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Leu Tyr Arg Gly Ser Pro Leu Val Gly Asp Arg Lys Pro Leu His Leu
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Lys Glu Asn Ser Ala Gly Gly Gly Gly Asp Ser Ala Gln Ser Lys Ser
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Lys Ser Ala Gly Ala Gly Gln Gly Ser Ser Asn Ser Val Ser Asp Thr
            580                 585                 590
Gly Ala His Gly Val Gln Gly Ser Ser Ala Arg Thr Pro Ser Ser Pro
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His Lys Lys Phe Ser Pro Ser His Ser Ser Met Ser His Leu Glu Ala
    610                 615                 620
Val Ser Pro Ser Asp Ser Arg Gly Thr Ser Ser Ser His Cys Arg Pro
625                 630                 635                 640
Gln Glu Asn Ile Ser Ser Arg Trp Met Val Pro Thr Ser Val Glu Arg
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Leu Arg Glu Gly Gly Ser Ile Pro Lys Val Leu Arg Ser Ser Val Arg
            660                 665                 670
Val Ala Gln Lys Gly Glu Pro Ser Pro Thr Trp Glu Ser Asn Ile Thr
        675                 680                 685
Glu Lys Asp Ser Asp Pro Ala Asp Gly Glu Gly Pro Glu Thr Leu Ser
    690                 695                 700
Ser Ala Leu Ser Lys Gly Ala Thr Val Tyr Ser Pro Ser Arg Tyr Ser
705                 710                 715                 720
Tyr Gln Leu Leu Gln Cys Asp Ser Pro Arg Thr Glu Ser Gln Ser Leu
                725                 730                 735
Leu Gln Gln Ser Ser Ser Pro Phe Arg Gly His Pro Thr Gln Ser Pro
            740                 745                 750
Gly Tyr Ser Tyr Arg Thr Thr Ala Leu Arg Pro Gly Asn Pro Pro Ser
        755                 760                 765
His Gly Ser Ser Glu Ser Ser Leu Ser Ser Thr Ser Tyr Ser Ser Pro
    770                 775                 780
Ala His Pro Val Ser Thr Asp Ser Leu Ala Pro Phe Thr Gly Thr Pro
785                 790                 795                 800
Gly Tyr Phe Ser Ser Gln Pro His Ser Gly Asn Ser Thr Gly Ser Asn
                805                 810                 815
Leu Pro Arg Arg Ser Cys Pro Ser Ser Ala Ala Ser Pro Thr Leu Gln
            820                 825                 830
Gly Pro Ser Asp Ser Pro Thr Ser Asp Ser Val Ser Gln Ser Ser Thr
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Gly Thr Leu Ser Ser Thr Ser Phe Pro Gln Asn Ser Arg Ser Ser Leu
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Pro Ser Asp Leu Arg Thr Ile Ser Leu Pro Ser Ala Gly Gln Ser Ala
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Val Tyr Gln Ala Ser Arg Val Ser Ala Val Ser Asn Ser Gln His Tyr
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Gln Gly Ser Gly Val Lys Thr Gln Thr Gly Leu Ser
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<211> 2594
<212> DNA
<213> Homo sapiens

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<222> (34)..(1992)

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ataacaagag gaaggtcacg aaaagggtct gagctcacct gcccggaaga taataagatt 240
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gaaggggatt tgatgaagac agaagatgag tatgatcagc tggaacagaa atttagaact 360
gagcaggata aggctaactt cctctctcaa caactagagg agatcaagca ccaaattgcc 420
aagaataaag caatagagaa gggtgaggtt gtgagccagg aagctgaact gagacacaga 480
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<212> PRT
<213> Homo sapiens

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35 40 45
Glu Ile Thr Arg Gly Arg Ser Arg Lys Gly Ser Glu Leu Thr Cys Pro
50 55 60
Glu Asp Asn Lys Ile Lys Glu Leu Thr Leu Glu Ile Glu Arg Leu Lys
65 70 75 80
Lys Arg Leu Gln Gln Leu Glu Val Val Glu Gly Asp Leu Met Lys Thr
85 90 95
Glu Asp Glu Tyr Asp Gln Leu Glu Gln Lys Phe Arg Thr Glu Gln Asp
100 105 110
Lys Ala Asn Phe Leu Ser Gln Gln Leu Glu Glu Ile Lys His Gln Ile
115 120 125
Ala Lys Asn Lys Ala Ile Glu Lys Gly Glu Val Val Ser Gln Glu Ala
130 135 140
Glu Leu Arg His Arg Phe Arg Leu Glu Glu Ala Lys Ser Arg Asp Leu
145 150 155 160
Lys Ala Glu Val Gln Ala Leu Lys Glu Lys Ile His Glu Leu Met Asn
165 170 175
Lys Glu Asp Gln Leu Ser Gln Leu Gln Val Asp Tyr Ser Val Leu Gln
180 185 190
Gln Arg Phe Met Glu Glu Glu Asn Lys Asn Lys Asn Met Gly Gln Glu
195 200 205
Val Leu Asn Leu Thr Lys Glu Leu Glu Leu Ser Lys Arg Tyr Ser Arg

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Glu Glu Thr Pro Ala Val Phe Ile Arg Lys Ser Phe Gln Glu Glu Asn
            260                 265                 270
His Ile Met Ser Asn Leu Arg Gln Val Gly Leu Lys Lys Pro Val Glu
        275                 280                 285
Arg Ser Ser Val Leu Asp Arg Tyr Pro Pro Ala Ala Asn Glu Leu Thr
    290                 295                 300
Met Arg Lys Ser Trp Ile Pro Trp Met Arg Lys Arg Glu Asn Gly Pro
305                 310                 315                 320
Ser Ile Thr Gln Glu Lys Gly Pro Arg Thr Asn Ser Ser Pro Gly His
                325                 330                 335
Pro Gly Glu Val Val Leu Ser Pro Lys Gln Gly Gln Pro Leu His Ile
            340                 345                 350
Arg Val Thr Pro Asp His Glu Asn Ser Thr Ala Thr Leu Glu Ile Thr
        355                 360                 365
Ser Pro Thr Ser Glu Glu Phe Phe Ser Ser Thr Thr Val Ile Pro Thr
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Leu Gly Asn Gln Lys Pro Arg Ile Thr Ile Ile Pro Ser Pro Asn Val
385                 390                 395                 400
Met Pro Gln Lys Gln Lys Ser Gly Asp Thr Thr Leu Gly Pro Glu Arg
                405                 410                 415
Ala Met Ser Pro Val Thr Ile Thr Thr Phe Ser Arg Glu Lys Thr Pro
            420                 425                 430
Glu Ser Gly Arg Gly Ala Phe Ala Asp Arg Pro Thr Ser Pro Ile Gln
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Ile Met Thr Val Ser Thr Ser Ala Ala Pro Ala Glu Ile Ala Val Ser
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Pro Glu Ser Gln Glu Met Pro Met Gly Arg Thr Ile Leu Lys Val Thr
465                 470                 475                 480
Pro Glu Lys Gln Thr Val Pro Thr Pro Val Arg Lys Tyr Asn Ser Asn
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Ala Asn Ile Ile Thr Thr Glu Asp Asn Lys Ile His Ile His Leu Gly
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Val Ile Thr Val Arg Pro Val Asn Val Thr Ala Glu Lys Glu Val Ser
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Gly Ala Ser Lys Val Thr Ser Thr Ile Thr Ile Thr Pro Val Thr Thr
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Ser Ser Ala Arg Gly Thr Gln Ser Val Ser Gly Gln Asp Gly Ser Ser
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Gln Arg Pro Thr Pro Thr Arg Ile Pro Met Ser Lys Gly Met Lys Ala
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595 600 605
Gly Lys Pro Val Val Ala Ala Pro Gly Ala Gly Asn Leu Thr Lys Phe
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<222> (110)..(1867)

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<212> PRT
<213> Homo sapiens

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35 40 45
Asn Phe Asp Pro Thr Gly Leu Glu Arg Ala Ala Lys Ala Ala Arg Glu
50 55 60
Leu Glu His Ser Arg Tyr Ala Lys Asp Ala Leu Asn Leu Ala Gln Met
65 70 75 80
Gln Glu Gln Thr Leu Gln Leu Glu Gln Gln Ser Lys Leu Lys Glu Tyr
85 90 95
Glu Ala Ala Val Glu Gln Leu Lys Ser Glu Gln Ile Arg Ala Gln Ala
100 105 110
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Val Ile Leu Ser Asp Ala Ser Ala Pro Gly Glu Gly Glu His Lys Ile
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09652460.090200

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 65                  70                  75                  80
Ser Ser Met Glu Asp Pro Leu Pro Gly Pro Gly Ser Pro Ser His Ser
                 85                  90                  95
Ala Pro Asp Pro Asp Gly Leu Pro His Phe Met Glu Thr Pro Leu Gln
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Pro Pro Pro Pro Val Gln Arg Val Met Asp Pro Gly Phe Leu Asp Val
        115                 120                 125
Ser Gly Ile Ser Leu Leu Asp Asn Ser Asn Ala Ser Val Trp Pro Ser
    130                 135                 140
Leu Pro Ser Ser Thr Glu Leu Thr Thr Thr Ala Val Ser Thr Ser Gly
145                 150                 155                 160
Pro Glu Asp Ile Cys Ser Ser Ser Ser Ser His Glu Arg Gly Gly Glu
                165                 170                 175
Ala Thr Trp Ser Gly Ser Glu Phe Glu Val Ser Phe Leu Asp Ser Pro
            180                 185                 190
Gly Ala Gln Ala Gln Ala Asp His Leu Pro Gln Leu Thr Leu Pro Asp
        195                 200                 205
Ser Leu Thr Ser Ala Ala Ser Pro Glu Asp Gly Leu Ser Ala Glu Leu
    210                 215                 220
Leu Glu Ala Gln Ala Glu Glu Glu Pro Ala Ser Thr Glu Gly Leu Asp
225                 230                 235                 240
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<212> DNA
<213> Homo sapiens

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09/05/2005 09:56:50 PM

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<212> PRT
<213> Homo sapiens

<400> 11933

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Gly Thr Ser Ala Lys Arg Thr Lys Glu Lys Met Ser Val Lys Gly Ser
        35                  40                  45
Lys Val Leu Cys Pro Lys Lys Lys Ala Glu His Thr Asp Asn Pro Arg
    50                  55                  60
Pro Gln Lys Lys Ile Pro Ile Pro Pro Leu Pro Ser Lys Leu Pro Pro
65                  70                  75                  80
Val Asn Leu Ile His Arg Asp Ile Leu Arg Ala Trp Cys Gln Gln Leu
                85                  90                  95
Lys Leu Ser Ser Lys Gly Gln Lys Leu Asp Ala Tyr Lys Arg Leu Cys
            100                 105                 110
Ala Phe Ala Tyr Pro Asn Gln Lys Asp Phe Pro Ser Thr Ala Lys Glu
        115                 120                 125
Ala Lys Ile Arg Lys Ser Leu Gln Lys Lys Leu Lys Val Glu Lys Gly
    130                 135                 140
Glu Thr Ser Leu Gln Ser Ser Glu Thr His Pro Pro Glu Val Ala Leu
145                 150                 155                 160
Pro Pro Val Gly Glu Pro Pro Ala Leu Glu Asn Ser Thr Ala Leu Leu
                165                 170                 175
Glu Gly Val Asn Thr Val Val Val Thr Thr Ser Ala Pro Glu Ala Leu
            180                 185                 190
Leu Ala Ser Trp Ala Arg Ile Ser Ala Arg Ala Arg Thr Pro Glu Ala
        195                 200                 205
Val Glu Ser Pro Gln Glu Ala Ser Gly Val Arg Trp Cys Val Val His
    210                 215                 220
Gly Lys Ser Leu Pro Ala Asp Thr Asp Gly Trp Val His Leu Gln Phe
225                 230                 235                 240
His Ala Gly Gln Ala Trp Val Pro Glu Lys Gln Glu Gly Arg Val Ser
                245                 250                 255
Ala Leu Phe Leu Leu Pro Ala Ser Asn Phe Pro Pro Pro His Leu Glu
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<212> DNA
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<220>
<221> CDS
<222> (152)..(769)

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<213> Homo sapiens

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<400> 11935

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Arg Glu Phe Val Met Gln Val Lys Val Gly Asn Glu Val Ala Thr Gly
        35                  40                  45
Thr Gly Pro Asn Lys Lys Ile Ala Lys Lys Asn Ala Ala Glu Ala Met
    50                  55                  60
Leu Leu Gln Leu Gly Tyr Lys Ala Ser Thr Asn Leu Gln Asp Gln Leu
65                  70                  75                  80
Glu Lys Thr Gly Glu Asn Lys Gly Trp Ser Gly Pro Lys Pro Gly Phe
                85                  90                  95
Pro Glu Pro Thr Asn Asn Thr Pro Lys Gly Ile Leu His Leu Ser Pro
            100                 105                 110
Asp Val Tyr Gln Glu Met Glu Ala Ser Arg His Lys Val Ile Ser Gly
        115                 120                 125
Thr Thr Leu Gly Tyr Leu Ser Pro Lys Asp Met Asn Gln Pro Ser Ser
    130                 135                 140
Ser Phe Phe Ser Ile Ser Pro Thr Ser Asn Ser Ser Ala Thr Ile Ala
145                 150                 155                 160
Arg Glu Leu Leu Met Asn Gly Thr Ser Ser Thr Ala Glu Ala Ile Gly
                165                 170                 175
Leu Lys Gly Ser Ser Pro Thr Pro Pro Cys Ser Pro Val Gln Pro Ser
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Lys Gln Leu Glu Tyr Leu Ala Arg Ile Gln Gly Phe Gln Val
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<212> DNA
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<211> 672
<212> PRT
<213> Homo sapiens

<400> 11937

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         35                  40                  45
Met Lys Lys Gly Glu Ala Ala Ala Val Phe Lys Thr Leu Pro Gly Pro
     50                  55                  60
Lys Ile Ala Arg Leu Glu Leu Gly Gly Val Ile Asn Thr Pro Gln Glu
 65                  70                  75                  80
Lys Ile Phe Ile Ala Ala Ala Ser Glu Ile Arg Gly Phe Thr Lys Arg
                 85                  90                  95
Gly Lys Gln Phe Leu Ser Phe Glu Thr Asn Leu Thr Glu Ser Ile Lys
            100                 105                 110
Ala Met His Ile Ser Gly Ser Asp Leu Phe Leu Ser Ala Ser Tyr Ile
        115                 120                 125
Tyr Asn His Tyr Cys Asp Cys Lys Asp Gln His Tyr Tyr Leu Ser Gly
    130                 135                 140
Asp Lys Ile Asn Asp Val Ile Cys Leu Pro Val Glu Arg Leu Ser Arg
145                 150                 155                 160
Ile Thr Pro Val Leu Ala Cys Gln Asp Arg Val Leu Arg Val Leu Gln
                165                 170                 175
Gly Ser Asp Val Met Tyr Ala Val Glu Val Pro Gly Pro Pro Thr Val
            180                 185                 190
Leu Ala Leu His Asn Gly Asn Gly Gly Asp Ser Gly Glu Asp Leu Leu
        195                 200                 205
Phe Gly Thr Ser Asp Gly Lys Leu Ala Leu Ile Gln Ile Thr Thr Ser
    210                 215                 220
Lys Pro Val Arg Lys Trp Glu Ile Gln Asn Glu Lys Lys Arg Gly Gly
225                 230                 235                 240
Ile Leu Cys Ile Asp Ser Phe Asp Ile Val Gly Asp Gly Val Lys Asp
                245                 250                 255
Leu Leu Val Gly Arg Asp Asp Gly Met Val Glu Val Tyr Ser Phe Asp
            260                 265                 270
Asn Ala Asn Glu Pro Val Leu Arg Phe Asp Gln Met Leu Ser Glu Ser
        275                 280                 285
Val Thr Ser Ile Gln Gly Gly Cys Val Gly Lys Asp Ser Tyr Asp Glu
    290                 295                 300
Ile Val Val Ser Thr Tyr Ser Gly Trp Val Thr Gly Leu Thr Thr Glu
305                 310                 315                 320
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Gln Tyr Lys Val Leu Gln Glu Arg Glu Asn Tyr Gln Gln Ser Ser Gln
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370 375 380
Phe Thr Leu Asn Lys Asp Asp Ala Ser Tyr Ser Leu Ile Leu Glu Val
385 390 395 400
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Ile His Pro Lys Leu Glu Tyr Gln Leu Leu Leu Ala Lys Lys Val Gln
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CONFIDENTIAL

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Glu Asp Met Lys Glu Val Ile Glu Ile Asp Gln Phe Ser Tyr Pro Val
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Pro Glu Asp Ala Ile Gly Leu Leu Asp Leu Ala Thr Ser Tyr Cys Glu
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Val Glu Asn Ala Phe Ser Leu Phe Ser Ala Ala Val Arg Tyr Asp Ala
165 170 175
Glu Asp Leu Glu Glu Phe Cys Phe Lys Phe Cys Ile Asn His Leu Thr
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Ser Gln Ala Gly Asp Leu Ile Met Glu Val Tyr Ile Glu Gln Gln Leu
65 70 75 80
Pro Asp Asn Cys Val Thr Leu Lys Val Ser Pro Thr Leu Thr Ala Glu
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Glu Leu Thr Asn Gln Val Leu Glu Met Arg Gly Thr Ala Ala Gly Met
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Asp Leu Trp Val Thr Phe Glu Ile Arg Glu His Gly Glu Leu Glu Arg
115 120 125
Pro Leu His Pro Lys Glu Lys Val Leu Glu Gln Ala Leu Gln Trp Cys
130 135 140
Gln Leu Pro Glu Pro Cys Ser Ala Ser Leu Leu Leu Lys Lys Val Pro
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Leu Ala Gln Ala Gly Cys Leu Phe Thr Gly Ile Arg Arg Glu Ser Pro
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